

JUNE 1960

MATERIAL HANDLING ILLUSTRATED

Portable Elevators
In Production

see page 14



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Material Handling Illustrated
800 Caxton Building
Cleveland 15, Ohio

The Mass Circulation Magazine
for the Material Handling Market



F50-24
5,000-lb
Capacity

F40-24
4,000-lb
Capacity

F30-24
3,000-lb
Capacity

3 NEW F series ALLIS-CHALMERS LIFT TRUCKS

with new POWER-CRATER engine



Unique crater-shaped piston head in POWER-CRATER engine, built by Allis-Chalmers, sets up violent swirling turbulence, thoroughly mixing fuel and air. Because of this proper mixing, a higher percentage of fuel is transformed into useful energy. Thus, Allis-Chalmers F series lift trucks effect substantial savings in fuel.

POWER-CRATER and POWER-SHIFT are Allis-Chalmers trademarks.

Outstanding working ability and convenience

- Power, balance and weight distribution to climb steep grades
- Roller channel steel masts for smooth, fast lifting
- Simple, "easy-to-turn" steering, one-lever gear shift
- Pivoted steer axle for smoother riding, positive traction
- Comfortably wide, adjustable, ventilated-cushion seat
- Familiar automotive-type controls, key starting switch
- Positive, safe braking — two systems: large two-directional hydraulic brake, mechanical parking brake
- Solid 2" x 5" bar-steel, heavy-duty frame—foundation for long life and dependability
- Easy serviceability—seat tilts up for easy access to engine, clutch change in only 30 minutes, counterweight quickly removed
- Replaceable wet cylinder liners in engine save time and money
- Optional transmissions — standard or POWER-SHIFT drive

Let your dealer show you how new F series trucks do more, save more. Send for new bulletin BU-640. Allis-Chalmers, Milwaukee 1, Wisconsin.

BH-142

ALLIS-CHALMERS



POWER FOR A GROWING WORLD

Circle 2 on Reader Service Card



*"They treat you fine
at the
Goodyear Sign!"*

Look at it this way:

NEW NEOTHANE means
up to 4 times the tire-life in tire-killing jobs

This "worm's-eye" view of a typical lift-truck—looking up through heavy plate glass—demonstrates just some of the capabilities of the new industrial tires made of NEOTHANE—Goodyear polyurethane development.

Just imagine being able to use tires that—

... roll over metal chips, sharp splinters, gravel, even broken glass, with a minimum of cutting or gouging.

... wade through water, oil, grease, solvents or acids without swelling or turning spongy.

... as tough as they are, have enough "give" to take the

shock of rough going—and won't mark fine-finish floors.

... outlast and outperform ordinary tires by as much as four times—even when carrying 2 to 4 times the load other tires can handle.

And that's only the beginning. For all the details on these Goodyear tires that stand up under tough, heavily overloaded conditions that cause other tires to fail prematurely, see your Goodyear Dealer or write Goodyear, Industrial Tire Sales, Akron 16, Ohio.



NEOTHANE INDUSTRIAL TIRES BY

GOODYEAR

MORE TONS ARE HAULED ON GOODYEAR TRUCK TIRES THAN ON ANY OTHER KIND

Circle 35 on Reader Service Card

for your
fast moves



use
Bond
best-for-the-job
TRUCK CASTERS

52-A Series Double
Ball Race Pressed
Steel Caster. Also
50-A Series Single
Ball Race Pressed
Steel Caster.



51-A Series Pressed
Steel Rigid Caster—
companion caster to
both the 50-A and 52-A
Series.



3-A Series Single Ball
Race Semi-Steel Swivel
Caster. 23-A and 36-A
Series Double Ball Race
Semi-Steel Swivel Cast-
ers also available.



VG-Series V-Grooved
Wheel Semi-Steel Swivel
Caster. Available also in
Rigid types.

Bond
**FOUNDRY & MACHINE
COMPANY**

324 Penn Street, MANHEIM, PENNSYLVANIA

Circle 9 on Reader Service Card

MATERIAL HANDLING ILLUSTRATED

VOL. 9 No. 3

JUNE, 1960

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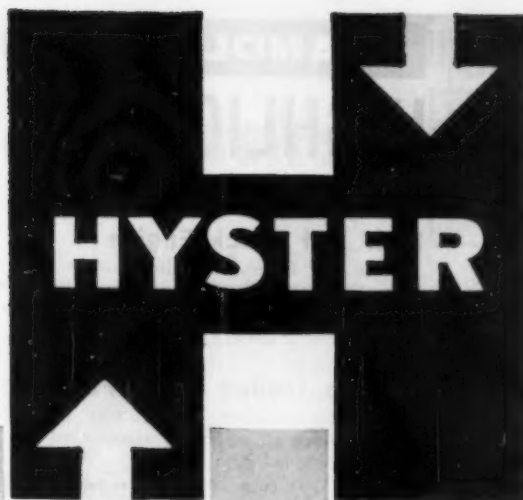


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MATERIAL HANDLING ILLUSTRATED



OIL CLUTCH
gives up to 10,000 hrs. service —

Only
HYSTER® has it!

A HYSTER exclusive—optional on Challenger pneumatics—6,000 to 20,000 lbs. capacity.

Specify Hyster trucks with Oil Clutch—forget about early clutch failure.

Clutch plates bathed in oil—dissipates heat—retards wear—prevents damage.

Extra smooth inching and engagement.

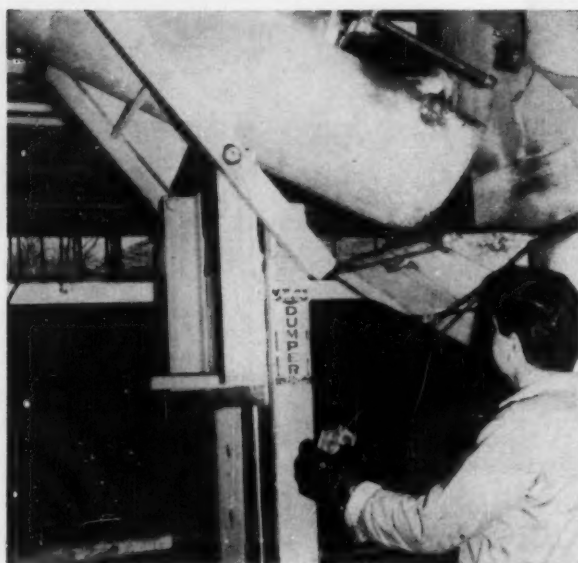
Call your Hyster dealer, or write for literature.

INDUSTRIAL TRUCK DIVISION—Lift trucks, mobile cranes, straddle carriers
TRACTOR EQUIPMENT DIVISION—Construction and logging equipment
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INDUSTRIAL TRUCK DIVISION
P.O. Box 847 • Danville, Illinois

LEADING TOOL & STAMPING COMPANY USES TUBAR DUMPERS FOR CONTROLLED FEEDING OF PARTS



Tubar Dumpers Solve Another Handling Problem . . .

Problem: Controlled feeding of small stampings into a parts cleaning machine from fibre drums. The rather frail fibre drums cannot withstand rough handling or abusive treatment.

Solution: A Tubar Dumper empties the drums at a controlled rate of speed. The operator can partially or completely empty the drum, as he so desires. The fibre drums are never damaged by the smooth, easy operation of the Tubar Dumper.

Use Tubar Dumpers to solve your handling problems . . . cut operating and labor costs . . . speed-up production. We custom-build Tubar Dumpers to fit your exact job needs. Our representatives are available to give you complete information. Write today!



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HANDLING HIGHLIGHTS

New Lift Truck Engine

Three new F series of Allis-Chalmers lift trucks feature the Power-Crater engine. Find out about its outstanding working ability and convenience by circling the number.

Circle 2 on Reader Service Card

For Controlled Parts Feeding

Solve your handling problem with small parts by using a Tubar dumper. It empties at a controlled rate. Circle number for more information.

Circle 69 on Reader Service Card

Get Increased Tire Life

There's up to four times the life in tire-killing jobs when you use Neothane from the Goodyear Tire & Rubber Co. Circle number on card for more information.

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Casters For Your Trucks

Try Bond truck casters to move more material faster, to get lower unit handling costs, to build plant efficiency, and to increase production profits. Find out about the big selection.

Circle 9 on Reader Service Card

Oil Clutch for Lift Trucks

Get up to 10,000 hours service with an oil clutch on a Hyster lift truck. It's optional on Challenger pneumatics—6,000 to 20,000-lb capacity.

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Good Looking Lifts

Design conscious engineers have produced a streamlined power propelled lift series for Crown Controls Co. Circle number for full information.

Circle 22 on Reader Service Card

Easy Reading Overhead Weighing

Try a Martin-Decker remote indicating crane scale for accurate, convenient, compact, eye-level reading. Send for a bulletin by circling the number.

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Conveyors Designed For You

They use experience and creativeness when designing conveyors and belts specifically for you at Jorgensen Conveyors Inc. Circle number to find out what they can do for you.

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Two New Light Floor Trucks

You'll get rugged service from two new lightweight floor trucks from Nutting Truck and Caster Co. Circle number for literature on aluminum truck and fiberglass truck.

Circle 53 on Reader Service Card

3 Capital Savings Services

Towmotor-Gerlinger can save you capital through lease, rent, or buy plans. Circle number to find out how the plans can fit into your picture.

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MATERIAL HANDLING ILLUSTRATED

Announcing a good looking, good performing new
power propelled **E-Z LIFT**

\$847.

MODEL W-57
1500 LB. CAPACITY

Three speeds forward

Three speeds reverse

Four 6 volt batteries

24 volt power package

Built-in charger

Floating traction drive

Sealed gear drive

Dynamic braking



Design conscious E-Z Lift engineers have completely eliminated the bulky, clumsy "bolted-on attachment" with this power propelled lift series. They are compact, integrally designed units that perform every bit as good as they look.

There are 54 standard E-Z Lift models with lifting heights from 54 to 130"—a versatile, light duty truck for every industry... every job... every budget.

For complete catalog and prices, please write

Attn/Sales Engineer • Crown Controls Co., Inc. • Luster Ave. • New Bremen, Ohio



Circle 22 on Reader Service Card

HANDLING HIGHLIGHTS

Does Job Safer, Cheaper

The Explosion Proof Go-Getter is a truck that will cut your costs and do the job safer. Circle number for more information from Revolver Co.

Circle 58 on Reader Service Card

Link Chain Hoists

Newest development in Yale lightweight electric hoists are link chain items. Circle number for information on the line.

Circle 74 on Reader Service Card

Self-Dumping Hoppers

Cut handling costs with a self-dumping hopper from Roura Iron Works Inc. Circle number for more details.

Circle 59 on Reader Service Card

Angle Is Strong

Try Equipto angle for building stairs, guard rails, ladders, racks, and other items

that need strong, fast, simple, and inexpensive components. Circle number for a free Idea Book.

Circle 29 on Reader Service Card

Portable Bag Closer

Model C bag closer weighs only 10½ lb. Circle number for a complete rundown on Dave Fischbein Co. bag closing equipment.

Circle 33 on Reader Service Card

Simple Dockboard

Air powered hydraulic dockboard costs little and is easy to operate. Circle number for complete specifications.

Circle 30 on Reader Service Card

Versatile Lift Table

The price is low but the job is big when you use a portable lift table made by Autoquip Corp. Circle number for complete information.

Circle 6 on Reader Service Card

Tough Tote Boxes

For light, strong, easy stacking, snug nesting tote and mill boxes, try Federal Fibre Corp. products. Circle number for an illustrated catalog.

Circle 32 on Reader Service Card

Low Cost Handling

Big Joe has 80 lift truck models from which you can choose. Circle number for information on the right one for you.

Circle 16 on Reader Service Card

Conveyor Specialists

Get suggestions and literature from Buschman Conveyors, firm that designs, makes, and installs nothing but conveyors. Circle number for information.

Circle 15 on Reader Service Card

Release Floor Space

Move materials overhead with efficient electric hoists from Chisholm-Moore Hoist Division. Circle number for catalog.

Circle 18 on Reader Service Card

Complete Hoist Line

Eliminate back-breaking lifting and tugging with a Gardner-Denver overhead air hoist. Circle number for information on this complete line.

Circle 34 on Reader Service Card

Dock Goes to Job

Cut loading costs with Lite-Line Metal Industries dock that goes to the job. Circle number for more on this yard ramp that moves easily.

Circle 21 on Reader Service Card

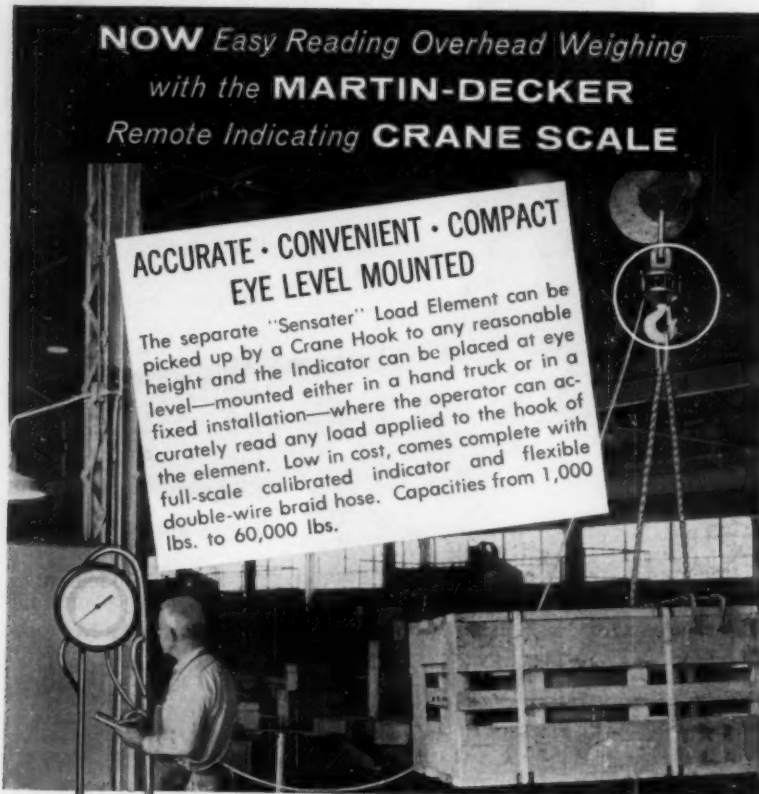
Vertical Lift Carrier

Solve handling problems with heavy materials and containers by using a Travelift

NOW Easy Reading Overhead Weighing
with the **MARTIN-DECKER**
Remote Indicating **CRANE SCALE**

ACCURATE • CONVENIENT • COMPACT
EYE LEVEL MOUNTED

The separate "Sensater" Load Element can be picked up by a Crane Hook to any reasonable height and the Indicator can be placed at eye level—mounted either in a hand truck or in a fixed installation—where the operator can accurately read any load applied to the hook of the element. Low in cost, comes complete with full-scale calibrated indicator and flexible double-wire braid hose. Capacities from 1,000 lbs. to 60,000 lbs.



MARTIN-DECKER SENSATER CRANE SCALE

This compact, low cost Crane Scale is ideally suited for overhead weighing where the operator has easy access to the Indicator. Save time and money by weighing during the normal handling operation, not as a separate time-consuming function. Low headroom loss, high safety factor, lightweight, accurate. Available in capacities from 1,000 lbs. to 20,000 lbs.

WRITE FOR DESCRIPTIVE BULLETIN V-34
MARTIN-DECKER CORPORATION
3431 CHERRY AVENUE, LONG BEACH 7, CALIF.

**MARTIN
DECKER**



PRECISION PRESSURE INSTRUMENTS • TESTING
WEIGHING • LOAD AND FORCE MEASUREMENT

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vertical lift carrier. Circle number to find out how it needs only one man to operate.

Circle 68 on Reader Service Card

Fiberglass Tote Pans

Try one-piece fiberglass molded tote pans from G. B. Lewis Co. They won't rust, rot, dent, or bend. Circle number for big catalog.

Circle 43 on Reader Service Card

For Deft Handling

You save time and money with Yale low-cost electrics in the 2,000 to 3,000 lb range. Circle number for full information on the truck's features.

Circle 73 on Reader Service Card

Smooth-Running Conveyor

Eliminate spoilage, ship undamaged with American MonoRail conveyor. Find out how it runs unattended. Circle the number.

Circle 4 on Reader Service Card

Save Space In Storing

Try an Economy Walkie-Worklifter to save space while storing goods in process. Circle number for more information on this truck, used with corrugated metal boxes.

Circle 26 on Reader Service Card

Your Shop Obsolete?

Bring your shop up to date with Sage Quality-Built conveyors. Circle number for full information from the company.

Circle 60 on Reader Service Card

Reduce Dock Damage

Kelley Adjust-A-Lip dockboards solve problems such as damage to goods and trucks, smashed overhead doors, limited positioning hours, and expensive wasted man hours. Circle number for details.

Circle 41 on Reader Service Card

On-The-Spot Conversion

Motor generators from Motor Generator Corp. provide on-the-spot conversion from a.c. to d.c. They're tops for battery charging. Circle card for information.

Circle 50 on Reader Service Card

Narrow Your Aisles

It's possible with Raymond trucks, built to operate in narrow aisles. Circle number to find out more about electric tiering trucks and electric walkies.

Circle 56 on Reader Service Card

5,000 lb per Shelf

You get three shelf sizes and one panel size with the Series 60 Palmer-Shile adjustable storage racks. Circle number for a complete description.

Circle 55 on Reader Service Card

Stack 'em... Move 'em... Stock 'em... in Quantity on Faultless Casters

Eliminate costly, one-at-a-time handling methods with Faultless Casters! Parts—even heavy ones—can be stacked high on Faultless Casters, ready for further processing. Fully loaded Faultless Castered trucks, carts, dollies, racks roll easily, smoothly . . . carrying your products from machine to machine, around corners, down narrow aisles, even outdoors. And products stocked on Faultless Castered equipment require minimum rehandling for packaging, or shipping. Faultless engineers a complete line of precision casters to meet your specific requirements.

ASK YOUR DISTRIBUTOR. Your nearby Faultless Industrial Distributor and the local Faultless Sales Engineer will work with you to eliminate costly one-at-a-time handling methods at your plant.





GENERAL DUTY SERIES 100 CASTER



LIGHT DUTY SERIES 400 CASTER



MEDIUM DUTY SERIES 1900 CASTER




HEAVY DUTY SERIES H900 CASTER



EXTRA HEAVY DUTY SERIES 1300 CASTER






Faultless Caster Corporation
 Evansville 7, Indiana

Branch Offices in principal cities; see the Yellow Pages of the telephone book under "Casters." Canada: Stratford, Ontario

Circle 31 on Reader Service Card

Built for rugged service...

2 NEW lightweight floor trucks

Here are 2 new trucks that feature corrosion-free properties plus strength without weight . . . up to 40% lighter than steel. This permits use in almost any industry plus larger loads and more trips with less energy, less manpower.

Nutting Structo-Lite Trucks are made of heat treated aluminum alloy, the same type used for heavy duty structures . . . non-sparking for safety where explosive material is used, non-toxic and resistant to attack by food and unaffected by most chemicals, and many acids and alkalis. Exclusive Nutting unitized frame construction holds proper alignment throughout unusual loads and abuse. New 3 bearing "friction-free" casters for easiest possible maneuvering.



Nutting Fiberglass Box Trucks weigh as little as 70 lbs. (steel trucks of the same size, 120 lbs.) Chrome impregnated fiberglass is impervious to steam, oil and mild acids and alkalis — won't crack or corrode — withstands temperatures from -40°F to 212°F, even up to 250°F for short exposures. Smooth inside with rounded corners for easy cleaning.

These light, but extra rugged trucks are designed to increase your handling efficiency and to save you money — based on lighter weight, longer life, reduced maintenance and less downtime. For full information send the coupon today.

Nutting

TRUCK AND CASTER CO.

152 Division Street • Faribault, Minnesota



Send Structo-Lite aluminum truck literature
Send fiberglass truck literature

NAME _____

COMPANY NAME _____

ADDRESS _____

CITY _____

STATE _____

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THE EDITOR VIEWS THE NEWS

What Does Handling Cost You?

A critical, unbiased look at your total costs for material handling, packaging and shipping may surprise you. It's impossible, of course, to list here all costs that should be considered. But, to simplify the job, try to put dollar figures—or percentages—on the cost of every move of every item that goes in, through and out of your company. Naturally, cost of equipment which does nothing but handle materials—fork trucks, conveyors, cranes, racks, and the like—should be tagged material handling. But there'll be other machinery costs not so easily seen as handling or packaging costs.

When it comes to labor costs, you'll need especially keen judgment. Lean on the side of material handling, though—don't be afraid to lay these charges where they belong—and you'll probably come up with a close answer.

Your cost figures will probably be as good, if not better, than anyone else's. There is still no standard method for reporting material handling and packing costs. Here are some notes for comparison:

- Firms that mainly warehouse and distribute goods say their handling, packaging and shipping costs run higher than 75 percent of their total operating costs.
- A non-ferrous mill has reported labor for material handling accounts for about 40 percent of its payroll.
- Consultants find material handling costs run up to 50 percent of operating costs in a variety of industries.
- Utilities' handling costs can be 15 percent of inventory costs.

As an industry service, we're making an intensive study of such costs. We'll welcome any suggestions or advice.

Ed Leighton

EDITOR

WHAT'S NEW IN

EQUIPMENT

Label Any Surface

It's easy to write on this pressure sensitive tape with pen, pencil, stylus, or typewriter with ribbon at stencil position. Mark-On sticks to any clean, dry surface:



Circle 80 on Reader Service Card

glass, metal, plastic, leather, wood, paper board, even waxed surfaces. The tape isn't bothered by temperatures from 160° F to 40° below. It won't erase, yellow, dry out, or come off unless pulled off. The tape comes in red, blue, green, or black, in four regular widths: 1/2", 3/8", 1/4", and 1". Other widths may be made to order. You get a plastic dispenser with the regular 400-inch length. The 800-inch rolls come with 3-inch cores to fit heavy duty dispensers.

The Tapemark Co.

Box Pops Into Shape

A record storage file pops open, but can be folded flat and stored for reuse. The Miracle File, made of heavy corrugated, is a box within a box. It is made



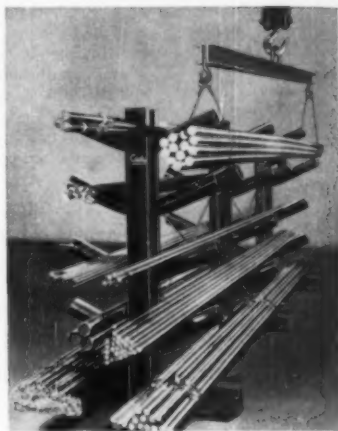
Circle 81 on Reader Service Card

of true eight corner, double wall, double floor construction. The box enables you to stack one upon another. A comfortable handhold lets you lift it easily, even when full. The Miracle File stores office papers across the short side and legal size papers along the long side. A larger size Miracle Ledger File is available.

The Paige Co.

No Need To Unstack

Save handling time with a Bartender, special rack for storing bars, tubing, and pipe. You can load and unload single or bundled stock at any level without unstacking upper tiers. Vacant space is available immediately. The Bartender is conveniently serviced by cranes and hoists. You can arrange the racks to take lengths



Circle 82 on Reader Service Card

up to 20 ft, total capacity up to 50 tons. The rack is painted yellow, ships knocked down, and assembles quickly, easily.

Cady Metal Fabricating Inc.

Handles Up To 250 lb

An all purpose light duty hand truck will take loads up to 250 lb. The Handy Hank, with its strong, one-piece frame,



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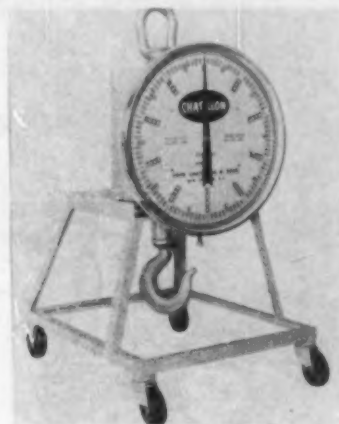
is recommended for handling cartons, bags, and packages of all kinds. Ball bearing wheels come with 6 x 2.00 zero pressure tires.

M.W. Inc.

Accurate Heavy Scales

A heavy duty crane scale comes in five models: 3, 5, 7 1/2, 10, and 15 ton capacities. Accuracy of the Iso-Seal is 1/10 of 1 per cent of capacity. There are no fluids to replace and the scales need no oiling. The case is cast aluminum and

cast iron, finished in yellow. Shock loads up to 25 per cent over full load will not affect readings. The large, plainly-marked dials permit easy reading from



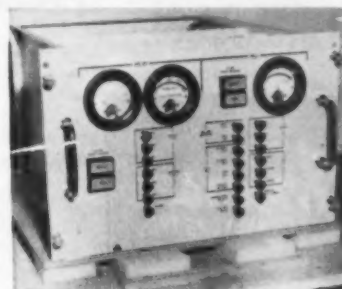
Circle 84 on Reader Service Card

a distance. A 360° safety, swivel ball bearing hook is standard, but fixed hooks and a scale dolly are optional equipment.

John Chatillon & Sons

Foam For Shock Mounting

You can shock mount electronic components with a new palletized system. Photo shows foam and pallet used with missile ground handling equipment having a 5 G factor of fragility. The component was shipped overseas. The company pro-



Circle 85 on Reader Service Card

duces many different types of high efficiency, low cost packaging and handling parts by combining foam with design engineering.

The Shelley Co.

Tape Speeds Layout

Designed to assist the engineer, draftsman and layout man, ACS self-sticking tapes include printed plant layout and material handling symbols. These quality, easily handled tapes can effectively reduce plant layout board work. Manufacturer is introducing a selection of 15 col-

INGENUITY...*

ALWAYS A SPECIALTY



The last Aztec Emperor of Mexico, Montezuma II, utilized a human conveyor system to transport gold to his vaults.

This vast wealth made possible such public works projects as temples, a conduit for Mexico's water supply, and a hospital for ex-soldiers.



Jorgensen
CONVEYORS INC.

After a 30-year background in the manufacture of conveyor systems, Jorgensen is still proving that experience is no barrier to creativeness.

This radically different metal flat-bed belt conveyor testifies to the fact that Jorgensen is not hamstrung by "traditional" engineering principles. Jorgensen designs and engineers conveyors and belts specifically for YOU — not for the mass market.

Write today for complete information.

Overhead Conveyors • Floor Systems • Portable Units • Slat •
Piano Hinge Apron • Dolly • Elevator • Apron • Chain-on-Edge
• All Types of Automatic Material Conveying Equipment

JORGENSEN CONVEYORS, INC., 6208 N. 38th St., Dept. I, Milwaukee 9, Wis.

Circle 40 on Reader Service Card

WHAT'S NEW IN EQUIPMENT

ored completely non-reflecting matte surfaces that can be written on with pen, pencil or most any standard marking device. Seven widths from 1/32 inch to one inch available. Write for free samples.

ACS Tapes, Inc.

Circle 86 on Reader Service Card

Rugged Tire

A new nylon tire combining passenger-tire tread (for good wear on hard surfaces) with extra tread width for high flotation on soft surfaces is available. Tire has carrying capacity of 1,765 lb at 20 mph.

B. F. Goodrich

Circle 87 on Reader Service Card

Bridge Ends Detours

A bascule type crossover bridge (double leaf design), that forms a roadway across roads and railroad tracks eliminates ramps and detours. Featuring push button electrical-hydraulic power, bridge is fabricated from all welded structural steel shapes. Decks are recessed within building line and attached with a continuous hinge to the dock. Actuating cylinder requires no excavation. Width is 8 feet, span 21 feet; capacity is 25,000 lbs.

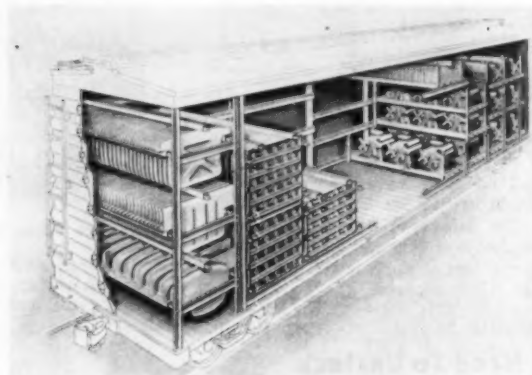


Rowe Methods, Inc.

Circle 88 on Reader Service Card

Dunnage Costs Cut

Many temporary dunnage and special car problems can be licked by the new Sparton Easy Loader, a permanent dunnage system. Heart of system is a series of 7 or more grooved, steel



channel belts mounted flush with the inside walls of a railroad car. Movable cross-members with forged steel, spring-loaded, latching ends extend across the width of car and fit snugly into the channels. Loads are locked firmly in place; transit damage, even under heavy humping is reduced. A fully adjustable system, installed at time of car construction, is also available. This has removable side rails fitting into T-slots in vertical

MATERIAL HANDLING ILLUSTRATED

channels and adjustable to any level. The cutaway shows this system utilized for automotive parts. One man can load and unload mixed commodities safely. He can double deck, using deckboards, to conserve space.

Spartan Railway Equipment Division

Circle 89 on Reader Service Card

Motorized Pry-Bar



This motorized pry-bar called Tug-Bar handles close quarter loads up to 4,000 lb. One unit has an enclosed unit for use in and around explosive areas and aboard aircraft. It comes in 110 and 200 volt AC models and 28 volt DC model, or to order for special voltages. Push button control permits maximum maneuverability. The pry-bar weighs only 100 lb. There are all sorts of lips: standard, elevated, pallet, long john, for uncrated loads and trailers.

Western Gear Corp.

Circle 90 on Reader Service Card

Staples Replace Long Nails



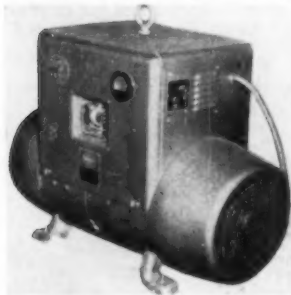
To provide better holding power than nails, Model S-762 Duo-Fast Stapler drives 7/16 inch-wide, 16 gauge galvanized staples 1", 1 1/4", and 1 1/2" long, says manufacturer. Tool operates with no recoil on air pressure as low as 50 psi to assemble light skids, plywood and fibreboard shipping crates, wood frame construction, etc.

Gun, made of magnesium, features front-end loading; weighs under 5 1/2 lbs.

Fastener Corporation

Circle 91 on Reader Service Card

High Capacity Charger



Rated 7 1/2, 10 and 15 kilowatts, three heavy-duty single-circuit battery chargers are offered by manufacturer. One hundred percent automatic, each is an integral unit designed to charge lead-acid or nickel-iron-alkaline industrial truck batteries. Motor, generator and charge controls are housed in a dead front, monitor-top cabinet as part of the motor-generator set.

Motor Generator Corp.

Circle 92 on Reader Service Card

Handling Damage Reduced

Fast, tight, inexpensive packing using Spauld-Pak reduces damage of machined assemblies and parts, says the manufacturer. Tough vulcanized fibre, corrugated into lightweight sheets of V-shaped spacers prevents parts from actually touching each other; keeps their weight evenly distributed. Material is reusable; can reduce manpower cost. It is non-abrasive, won't fray, crack or splinter; can be used during degreasing.

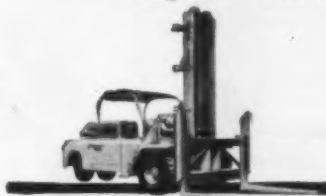
Spaulding Fibre Co., Inc.

Circle 93 on Reader Service Card



TOWMOTOR GERLINGER

offers you three complete capital-saving services!



1 YOU LEASE *without down payment!*

You don't make a down payment when you use the Towmotor-Gerlinger Lease-A-Truck Plan. You put T-G equipment to work on a continuous, year-'round basis. You just make a small monthly payment—paid out of savings the equipment produces.

2 YOU RENT *without cash outlay!*

You don't tie up working capital when you rent Towmotor-Gerlinger fork lift trucks and material carriers. You put them to work immediately. You start cutting handling costs immediately. Your only cash outlay is one small monthly charge.

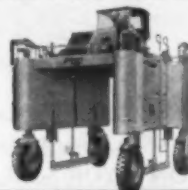
3 YOU BUY *and save as you pay!*

You don't pay cash for Towmotor-Gerlinger equipment when you use our low-cost Time Payment Plan. You make reasonable monthly payments. Low interest rates make it easy. Handling economies consistently pay the monthly cost many times over.

Complete factory-supervised maintenance can be included in any of the above plans! For complete information, write Towmotor-Gerlinger Rental Division, Towmotor Corporation, Cleveland 10, Ohio.

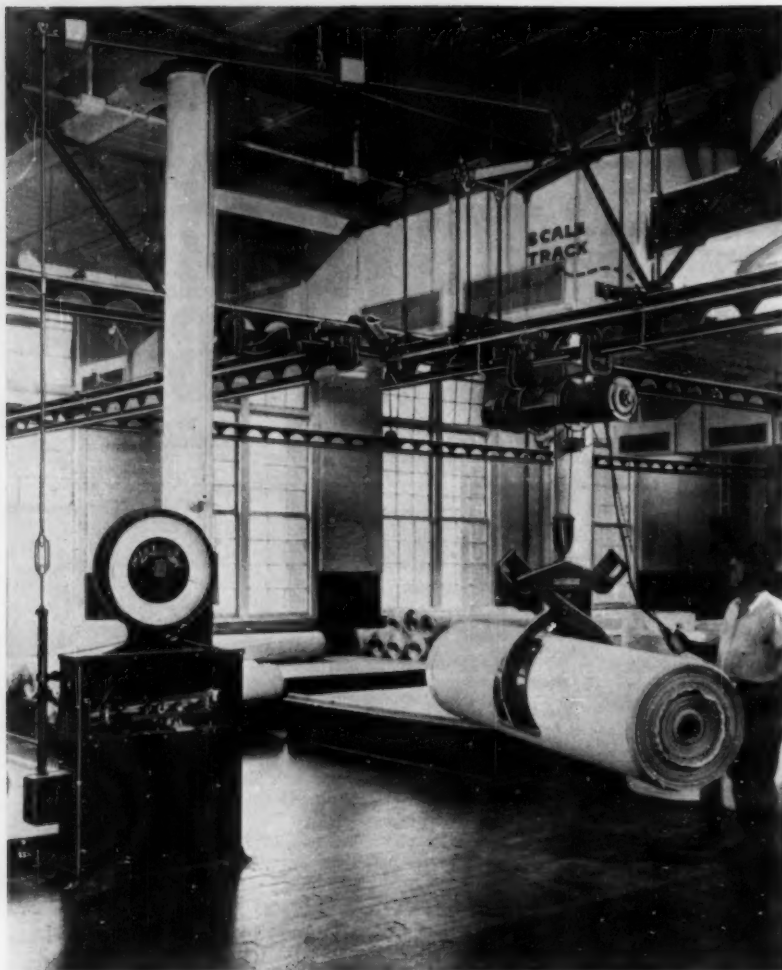


FORK LIFT TRUCKS, CARRIERS AND TRACTORS SINCE 1919



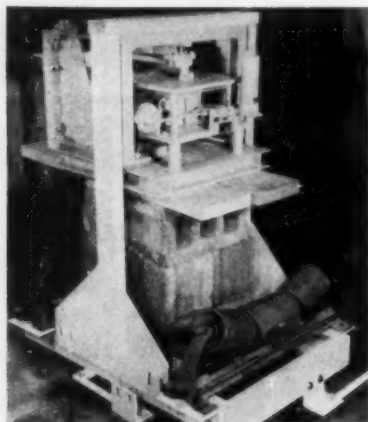
Gerlinger Carrier Co. is a subsidiary of Towmotor Corp.

Circle 67 on Reader Service Card



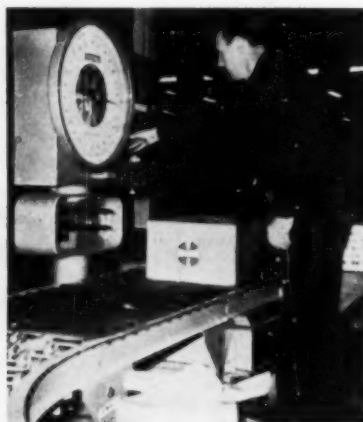
Circle 100 on Reader Service Card

OVERHEAD TRACK scales work well with a monorail or over head trolley conveyor. Load is weighed accurately as it's moved. Scale has track section suspended from a lever system. Up to 60,000 lb may be shown automatically.



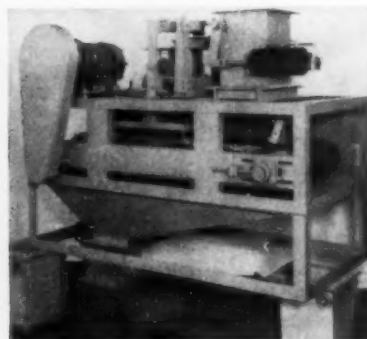
Circle 101 on Reader Service Card

BELT CONVEYOR SCALES weigh continuously and totalize. They fit into present or proposed conveyors.



Circle 102 on Reader Service Card

ROLLER CONVEYOR SCALE, part of the line, allows easy and accurate weighing during the packing.



Circle 103 on Reader Service Card

WEIGHER-FEEDERS keep even flow rate for dry bulk materials. They can be belt type or screw type.

Weighing On The Move

WEIGHING DEVICES may be built right into almost any conveyor for close regulation of production. Scales not only weigh, they count, sort, proportion, and control. They will work while your material is on the move to save time and effort. Quantities may vary from .01 oz to more than 100 tons.

Basic Automatic Methods

1—Batch systems measure exact quantities of one or more ingredients, liquid or solid. The ingredients are fed to a process in sequence or to various points in the line. After a batch dumps, the scale recycles manually or automatically. Container filling by weight is a variation of batching.

2—Continuous weighing measures material as it flows or is conveyed. Scales control the flow rate from conveyors, holding it uniform. The amount may be totalized. Conveyors like these will continuously blend materials with high accuracy.

Non-automatic scales in roller or monorail conveyors combine weighing with load movement. Scales are also made to fit into lines for check-weighing. Material is transferred, weighed at a standstill, then returned to the line. ♦♦



HOW MANY HOURS MAKE A WAREHOUSE?



Unlike theoretical scientists contemplating the fourth dimension, materials handling engineers have a very practical concern with the element of time. In warehousing situations, for example, "how long" is a vital consideration, along with "where", "how much", and "when".

How long must goods remain at rest before they constitute a warehousing problem? An hour, a day, a week, a month? There is no universal answer. In modern and efficient handling systems, where warehousing operations are closely coordinated with other phases of the flow system, a true warehousing problem can result from materials being stopped or stored a few minutes as well as a matter of weeks. And, since such short-term stop-overs usually involve frequent rehandling, rapid turn-over can be a more costly problem than long-term storage would be.

It's paradoxes like this that send materials handling managers to their nearest Rapistan engineer for practical ideas on solving their in-plant warehousing problems. Rapistan has evolved some interesting new



RAPISTAN FLOW RACK SOLVES a localized warehousing problem in this plant. An optimum supply of all parts needed in this assembly area are held in live storage, easily accessible to the worker. As parts are removed from the Flow Rack, others flow forward to take their place.

Circle 13 on Reader Service Card

concepts of long and short-term accumulation. And, Rapistan makes what it takes to put these storage problems "on wheels", where they're handled with the same efficiency you demand in the planned movement of goods over your flow system. The problems may be solved by a special-design Flow Rack for live storage, or something as familiar as a standardized type of wheel or roller conveyor, or a creative application of overhead trolley conveyor, or something as new as our APC "Pressure-sensing" conveyor.

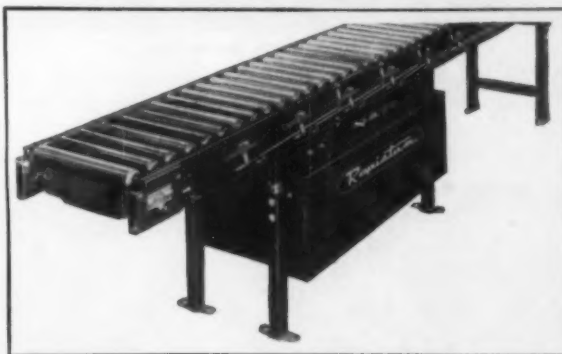
Why not call in your Rapistan handling engineer and let him go "warehouse hunting" with you in your plant. He's trained to spot these "hidden" warehousing problems wherever they may occur in a plant's operations. And he's had worlds of experience in turning these problems into profits for all kinds of manufacturers as well as wholesalers and retailers. We'll show you some examples, in illustrated case studies. **Circle No. 10 on the Reader Service Card.**

DOZENS OF HANDLING PROBLEMS SOLVED

by imaginative use of power and gravity conveyor and improved methods of storage, are illustrated in this newly-revised Handbook of Materials Handling Ideas. For your copy, circle **No. 11 on the Reader Service Card.**



ACCUMULATE CANS, DRUMS, SLATTED PALLETS WITHOUT LINE PRESSURE



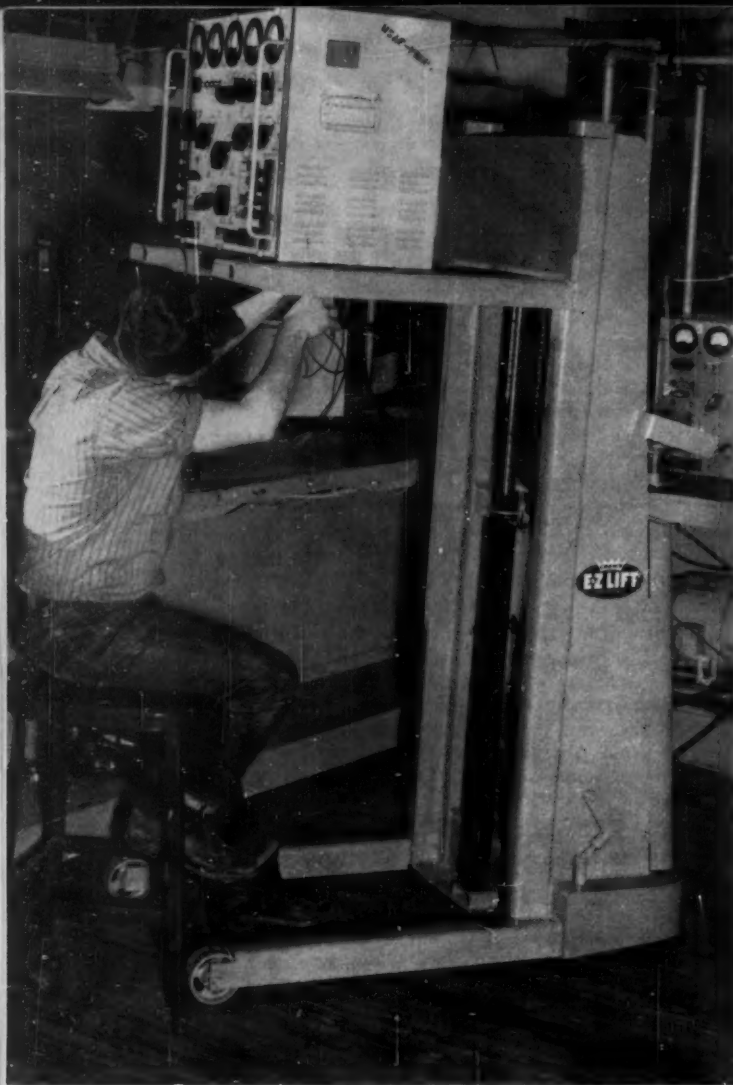
Now accumulation without build-up of line pressure is possible for many materials that can not be handled on wheel conveyor. Rapistan APC Live Roller conveyor offers all the benefits of our revolutionary APC wheel conveyor, including low line pressures when accumulating under power, and automatic carton spacing. And, you can handle heavier and wider materials, as well as articles that only roller surfaces hand convey satisfactorily. For complete details, **circle No. 12 on the Reader Service Card.**

Rapistan®

CONVEYING EQUIPMENT

The RAPIDS-STANDARD CO., Inc.

722 Rapistan Building, Grand Rapids 2, Michigan



Circle 104 on Reader Service Card

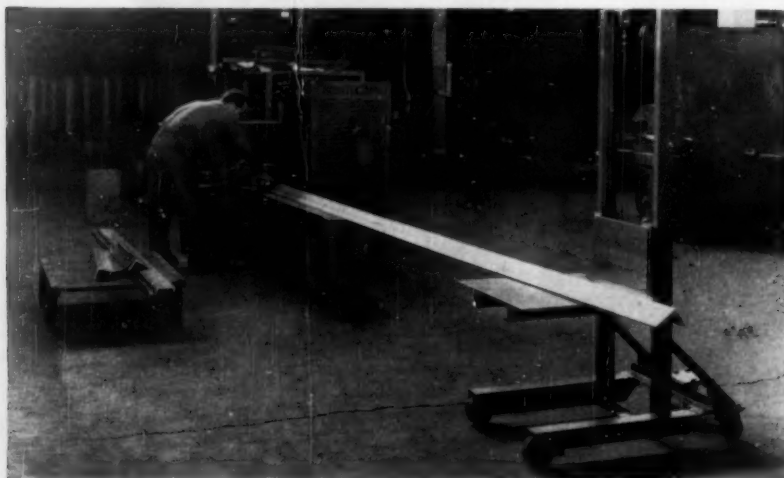
A WORK TABLE can be made from a portable lift. The electrician gets at formerly inaccessible places on this piece of heavy and expensive test equipment. The lift carries completed units from assembly to shipping.

The Portable Elevator— Right Hand Of Production



Circle 106 on Reader Service Card

IDEAL INSPECTION table is this large portable lift. Adjustable height of the platform enables proof readers at this first class printing plant to bring the material to the proper level for more efficient production.



Circle 105 on Reader Service Card

ELEVATORS, with their easy lifting and simple positioning, make first rate work holders. Sawing this piece of angle could have been a nasty problem. But it's simple when the long end is supported by a portable elevator. Lifts, often linked with storage, are good in production.



Circle 107 on Reader Service Card

A LIFT is good for transporting loads between machines, conveyors. Here worker positions formed units at a machine for more processing.

CALL THEM portable lifts, portable elevators, or hand stacking trucks—even the makers can't agree on the name—but they will agree that these devices:

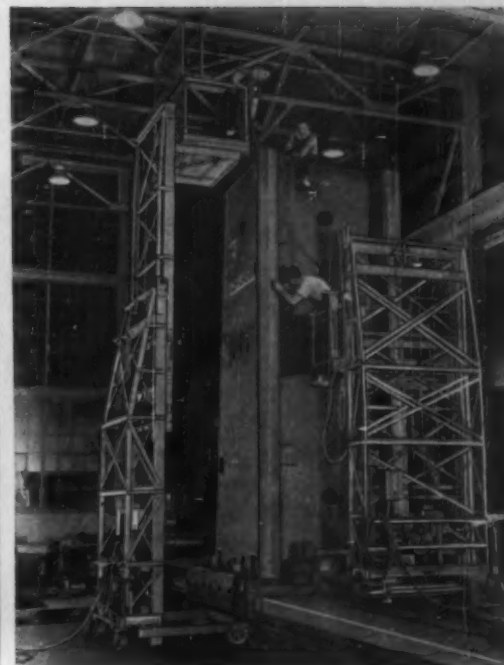
- Raise and lower loads quickly and easily.
- Run cheaply; you pull or push them by hand.

Use portable lifts for occasional trips over unfixed routes in small areas. They're useful where floor load capacities are limited (upper floors, elevators, rail cars, or trucks). Short turning radius makes portable lifts handy in narrow aisles, crowded areas, or in carriers.

They team well with powered trucks, freeing the powered trucks for more suitable work. Portable lifts are best for lifting. Use them for that and leave the long trips for the fork trucks. Portable lifts can also raise workers to suitable working heights. And the platforms make good adjustable tables.

Ways they lift and lower:

- Hand-operated hydraulic system or hand crank—for light, infrequent loads.
- Battery—where lifts are more frequent or for occasional heavy loads.
- Constant duty motors—where lifts are nearly continuous and position is fixed for longer periods (at machines or work stations).♦♦



Circle 109 on Reader Service Card

GREAT HEIGHTS are possible with extensions. You can place workers easily on large objects such as the milling machine (right). Lifts go as high as the telescoping man-lift for a radio telescope antenna (left).



Circle 108 on Reader Service Card

VALUABLE USE of a portable elevator can be right at the production line. Every time a layer of electric motors is filled, the worker jogs down the platform for a new layer. This keeps the work level at a convenient height. Vertical movement is automatic but side movement is by hand.



Circle 110 on Reader Service Card

AIR-OIL mechanism powers platform to reduce danger of fire or explosion. The drum contains an inflammable paint-base solution.

A Stitch In Time

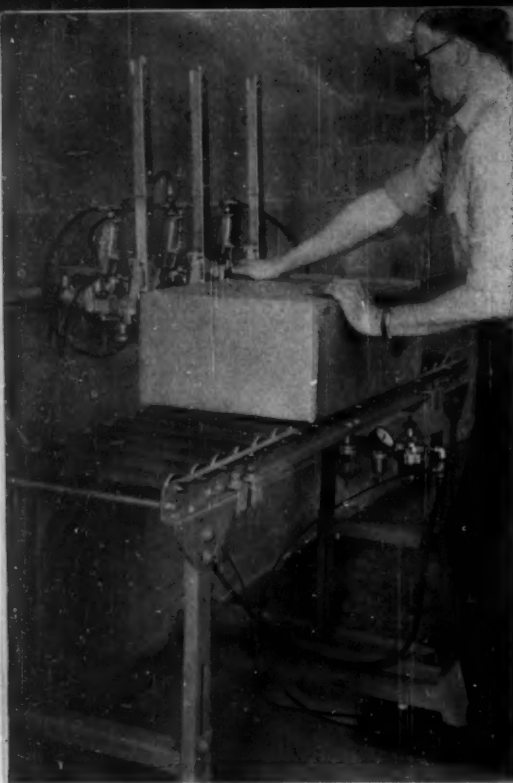
HOW CAN YOU select the stitcher or stapler best suited to your needs? You'll need answers to these three questions.

1. Which machine will do your job most efficiently?
2. What machine can you get to do your particular job?
3. What manufacturer will adapt stock equipment to meet your special requirements?

All end uses for staples can be grouped under one of two headings: A. Uses where the staple will be an integral part of the finished product; B. Uses where the staple is expendable, as in packaging.

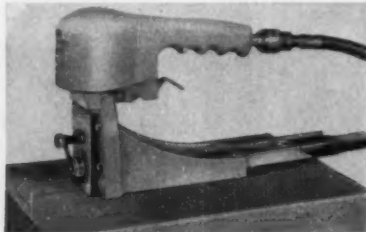
Basically, there are eight general classifications. They are: wire stitchers; stationary machines which use preformed cohered wire staples; one-hand, compression type tackers; two-hand, strike type, tackers; hammer tackers; pliers; machines which clinch without anvils; machines which use retractable anvils.

The same thought and care should be devoted to the purchase of stitching and stapling equipment as is given to the selection of containers and packaging materials. The right machine can help you achieve economical packaging and insure that your product will reach the customer safely.**



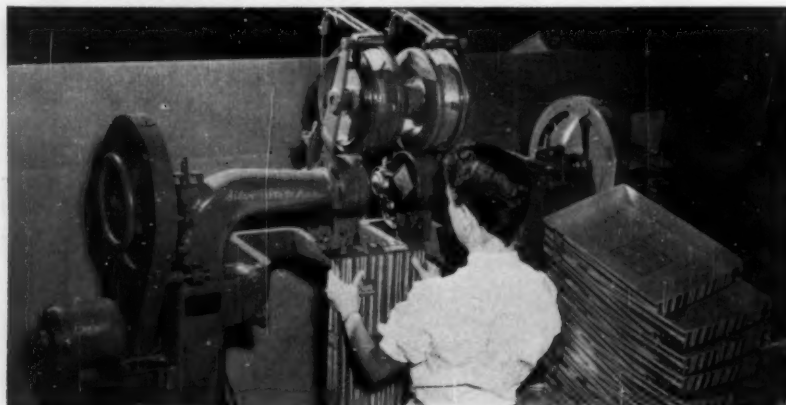
Circle 111 on Reader Service Card

STAPLING heads, gang-mounted in a series, seal a container in one operation. The stapling head easily mounts on conveyor system.



Circle 112 on Reader Service Card

PORTABLE air-operated stapling machine cuts cost. It closes cartons up to 200 an hour. Machine weighs 6½ lb, holds 100 staples.



Circle 113 on Reader Service Card

STITCHERS HELP ASSEMBLE telescope boxes with a production line technique for container company. Entire operation, from attaching wrapping string through assembly of box tops and bottoms, is smooth, efficient. Each assembly section has two box stitchers, one with left hand arm, other, right.



Circle 114 on Reader Service Card

STAPLE NAILING cut crating cost 50% for soda fountain maker. Three crates are now done in time it once took for 1 in a 5-min. job.



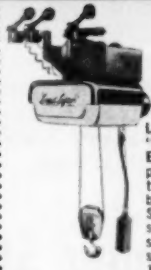
Circle 115 on Reader Service Card

HAND STAPLER closes this adjustable corrugated box. Stapling increased ski volume from 135 to 200 pairs a day by fast operation.

CUT YOUR COSTS WITH THESE PROBLEM SOLVERS



Load Lifter Series "700" Wire Rope Electric Hoist. Fast, heavy-duty type. Push-button control. Single and two-speed models. All types of suspension, including low headroom. Capacities: 1/2 to 15 tons.



Load Lifter Series "600" Wire Rope Electric Hoist. A powerful production helper. Push-button control. Single and two-speed models. All standard suspensions. Capacities: 1/2 ton and 1 ton.



Push Button Budget Electric Hoist. Portable. For regular hoisting service. Two fully enclosed automatic brakes. Provides fast, accurate spotting action. A 1/2-ton load can be lifted at 34 FPM. Hook suspension. Capacities: 1/4 to 2 tons.



Pull Cord Budget Electric Hoist. Ideal for intermittent service. Has efficient gearing and two brakes. Uses little electricity. Comes ready to hang up, plug in, and use. AC, DC, and 12-volt battery-operated models. Hook suspension. Capacities: 1/4 to 2 tons.



Load Lifter Air Hoist. Wire rope load line. High starting torque and smooth operation with 5-cylinder radial air motor. Infinitely variable speed control to 37 FPM. Throttle control available. All standard suspensions. Capacities: 1 to 15 tons.



Budget Air Hoist. Link and roller chain types. Pendant cord control. Speeds infinitely variable to 75 FPM. Rigid mount push trolley available. Safety hooks standard. Capacities: 1/4, 1/2 and 1 ton.



Tugit Lever-Operated Hoist. Light, compact, portable. Easy to operate even in close quarters at any angle. Fine for maintenance. Capacities: 1/4 to 3 tons.



Budget Differential Hoist. Low-priced lifting tool for occasional use where high efficiency isn't essential. Light and compact. Capacities: 1/4, 1/2 and 1 ton.



Budget Roller Chain Block. Spur-gear efficiency combined with lightness. 45 lb. pull on hand chain lifts 1/2 ton. Capacities: 1/4 to 2 tons.



Budget Aluminum Chain Block. Light in weight but tough. Can be carried to the job, hung up and operated by one man. Spark and corrosion resistant models. Capacities: 1/4 to 2 tons.



Budget Aluminum Hi-Cap Chain Block. Combine light weight with strength and tops in operating efficiency. Capacities: 3 to 10 tons.



Budget Aluminum Army Type Chain Block. Integral push and hand-gear trolleys are adjustable to fit I-beams in a number of sizes. Low headroom design. Capacities: 1/4 to 10 tons.



I-beam Trolleys. Attach to top hook of hoist to add travelability. Operate on bearing equipped wheels. Geared type available. Capacities: to 20 tons.



Budget Cord Reel. Supplies current to hoists and portable tools with polyphase motors up to 7 1/2 hp. — single phase to 1/2 hp. Cable reels off in any direction.



MMM Load Scale. Permits weighing loads while in suspension. Saves handling time and costs. Guards against overloading lifting equipment. Capacities: 1/4 to 2 1/2 tons.



Budget Cord Conductor Trolley. Use any number to hold aloft and travel any hoist conductor cord or air hose. Fit 8" to 18" I-beams.



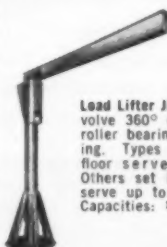
Gantry "A" Frame. For low-cost mobile lifting service. Caster equipped. Shipped knocked down. Easy to assemble. Capacities: 1 and 2 tons.



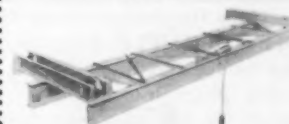
Budget Crane Assemblies. Top-running, underhung and jib types. Packaged components for erection on the job site. Capacities: to 6 tons, spans to 30 feet.



Budget Bridge Drive. Converts hand-operated cranes up to 10 tons to "walking speed" electrical operation at low cost. No drilling or machining. Push-button control.



Load Lifter Jib Cranes. Revolve 360° on ball and roller bearings. No binding. Types that bolt to floor serve 550 sq. ft. Others set in concrete serve up to 1500 sq. ft. Capacities: 1/4 to 5 tons.



Load Lifter Bridge Crane. Electrically operated underhung type with single girder. Spans to 50 feet. Capacities: 1/2 to 10 tons. Other Load Lifter Cranes to 50 tons, spans to 60 feet.

TRADE NAMES SHAW-BOX, LOAD LIFTER, BUDGIT, HI-CAP AND TUGIT ARE REGISTERED TRADEMARKS

HANDLE MATERIALS MORE EFFICIENTLY and you save time and manpower, increase the safety level and output of your plant, and cut unit costs.

Whatever your overhead load-handling problem, MMM offers by far the most complete variety of modern hoists, cranes and auxiliary equipment available anywhere.

CALL ON YOUR NEARBY SHAW-BOX DISTRIBUTOR for experienced help in selecting the load handling devices that will serve best and save the most in your particular operation. He maintains ample stocks to give you prompt delivery. So let him contribute to the smooth, economical production that is essential to broaden your profit margin. His service is as close as your telephone. Phone him for complete information or write to us for bulletins.



OVERHEAD LOAD HANDLING EQUIPMENT

Products of

MANNING, MAXWELL & MOORE, INC.

Shaw-Box Crane & Hoist Division • Muskegon, Michigan

In Canada: Manning, Maxwell & Moore of Canada, Ltd., Galt, Ontario

Circle 46 on Reader Service Card



Circle 116 on Reader Service Card

OFF THE SHELF. Fully automatic, unattended rectifier charges overnight, plugs into regular 115-volt outlet. No special wiring is needed.



Circle 118 on Reader Service Card

MOTOR GENERATORS have AC motor driving DC generator. Set on left can recharge one to four walkie trucks at once. Compound winding gives constant voltage. Controls are automatic. Small unit charges one battery, is shunt wound. Place units above floor level to avoid damage from trucks.

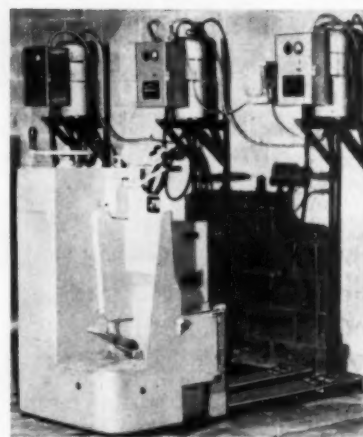
Five Charging Stations— Which Is Best For You?

BATTERY LIFE depends on proper recharging. Full discharge does no harm. Just recharge promptly and fully. You need direct current for the job.

Battery chargers convert your plant's alternating current to direct. They may be motor generators or rectifiers. Results are similar, but each does it differently.

Best method rests on the battery itself, charging time available, voltage and capacity of the charger. They should match each other. Automatic controls take the guesswork out of charging.

Adequate charging systems need not be lavish. Here are some modest setups to show you some possibilities for your plant. ♦♦



Circle 119 on Reader Service Card

WALL MOUNT vertical motor-generators take no floor space, stay cleaner. Controls at eye level. Install where trucks work or park.



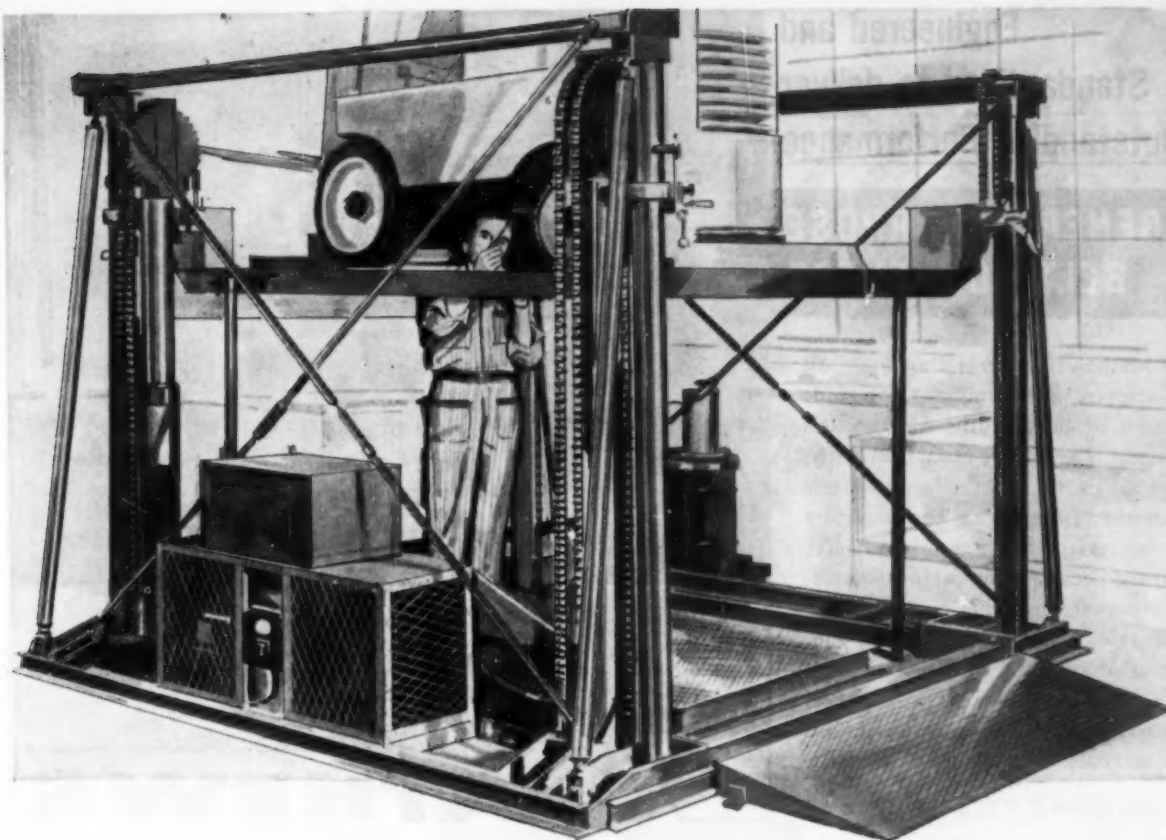
Circle 117 on Reader Service Card

LARGER INSTALLATION meets heavy demands of rider fork truck fleet. A large generator supplies current through a multicircuit panel. Meters show charge put into each battery. Trucks sometimes have two sets of batteries for service around the clock. Exhausted sets recharge on roller racks.



Circle 120 on Reader Service Card

RECTIFIER rides with the battery ready for regular or booster charge. Plug it in during lunchtime or rest periods. Vibration won't harm it.

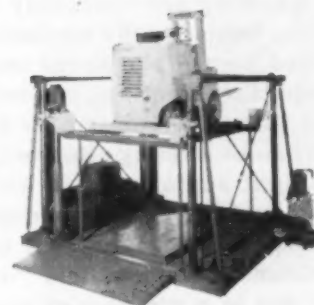


from the ground UP



builds it better...

In manufacturing a complete line of maintenance machinery and equipment, Colson considers the specific job to be done. Each individual unit is built from job-proven designs, from the finest materials. Literally from the ground up, Colson builds it better, backed by 75 years of experience. Colson equipment provides quicker, safer, easier ways to do rugged jobs. A Colson "crew" of equipment can make any business run smoother, and cut costs by using manpower more effectively. Colson products prove, by outperforming and outlasting all others, that quality costs less when you buy the best... Colson.



75 years of experience in supplying field-tested equipment and casters to industry and institutions. Millions of satisfied customers know and respect the name COLSON... synonym for quality.

LUBRILIFT LETS MAINTENANCE CREWS GET UNDER AND INSIDE

The Colson Lubrilift is designed to facilitate greasing fleets of 3 ton and 6 ton fork lift and other trucks with maximum efficiency, economy and safety. No pit is needed. There is no sub-surface installation required. Lubrilift can be installed on upper floors or relocated easily. It provides complete access to underside of truck or tractor. Besides Lubrilift, other industrial platform and maintenance lifts, portable and stationary, are available from Colson. Send for free illustrated catalog today.

THE COLSON CORPORATION

Plants in: Jonesboro, Ark.; Somerville, Mass. and Elyria, Ohio

Circle 19 on Reader Service Card

7 S. Dearborn Street
CHICAGO, ILLINOIS

Engineered and Standardized to deliver Outstanding Performance

GENERAL PURPOSE BELT CONVEYERS

• Mathews General Purpose Belt Conveyers are furnished in a wide range of belt widths and section lengths. They can be assembled easily, for all parts are standardized and furnished from stock. The conveyers have several features which make them especially practical for the average package handling problem. The drive unit may be located at the end, or at any convenient point beneath the conveyor. End roller assemblies, takeups, and three-pulley devices are all standardized and easily installed.

Write for Bulletin G. P. 53 and Catalog 856 today.



GENERAL OFFICES	MATHEWS CONVEYER COMPANY Ellwood City, Pennsylvania
WESTERN DIVISION	MATHEWS CONVEYER COMPANY WEST COAST San Carlos, California
CANADIAN DIVISION	MATHEWS CONVEYER COMPANY, LTD. Port Hope, Ontario, Canada

Over Fifty Years of Leadership in Mechanized Handling

MATHEWS

Yale low-cost electrics

in the 2000-3000-lb. capacity range are saving time and money for industry every day. Delicate maneuvering and deft handling are especially easy with this truck, for the mechanically actuated carbon pile speed control permits close-in inching and infinite speed variation. Twin-caster steer wheels make steering effortless, and easy right-angle turns in narrow aisles sharply increase storage space, cut stacking time. This truck saves maintenance overhead and "down-time" due to a minimum of moving parts and an economical powerplant.

For full information, call your Yale representative, or send for free brochure #5265 to The Yale & Towne Manufacturing Co., Materials Handling Div., Phila. 15, Pa., Dept. KT7.

YALE

INDUSTRIAL LIFT TRUCKS
TRACTOR SHOVELS • HOISTS

YALE & TOWNE

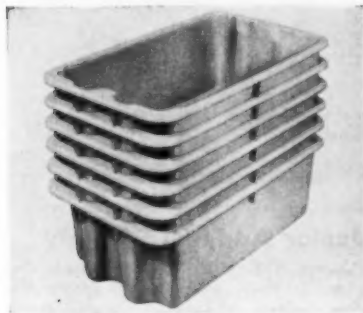


Yale Materials Handling Division, a division of The Yale & Towne Manufacturing Company. Manufacturing Plants: Philadelphia, Pennsylvania; Forrest City, Arkansas. Products: Gasoline, Electric, Diesel, LP-Gas Industrial Lift Trucks • Worksavers • Warehouse • Hand Trucks • Industrial Tractor Shovels • Hand, Air, Electric Hoists

Along The Aisles . . .

Save On Indirect Labor

Your product needs the best handling care available; cost must be low. G. B. Lewis Co. showed the Stack-n-Nest molded Fiberglas containers.



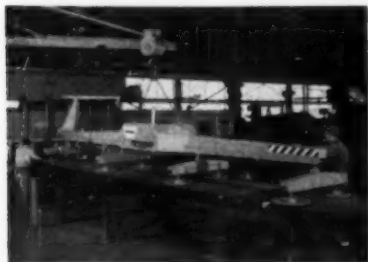
Lightweight, sturdy design offers conservation of work space whether loaded or stored. New in the line is a tote pan for the food industry made from PolyLewton, a high strength thermoplastic.

G. B. Lewis Co.

Circle 170 on Reader Service Card

Let Air Move Heavy Loads

Making its debut at the New England Show was Whiting Corporation's Pressuregrip, a vacuum handling system. Its application range runs from delicate plate



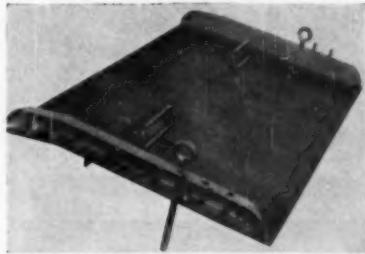
glass to rugged steel plate. Principle of operation is simple. Atmospheric pressure is constantly exerted against the earth at the rate of 14.7 lb per square inch. By evacuating the air from the captive space between the object being handled and a gripper, Pressuregrip brings this force to bear in a positive holding action that is virtually unbreakable. Unit has 5-ton capacity, is ideal for general sheet and plate handling. Spring loaded and swivel mounted grippers and crossarms allow flexibility for attachment to a variety of plate conditions.

Whiting Corp.

Circle 171 on Reader Service Card

A Light Heavyweight

A Langsenkamp Dockboard $\frac{3}{8}$ inch thick weighs in at 58 pounds, supports



a 12,000 pound load. One man handles it with ease. The board is made of special aluminum alloy with a tensile strength of 65,000 pounds. Yield strength is said to be twice that of other light alloys. Serious overloads won't snap the board. Instead it flexes and sets to give warning of abuse.

F. H. Langsenkamp Co.

Circle 172 on Reader Service Card

Sweeping Demonstration

Model 99 Hydra-Sweep was demonstrated at the Hydra-Action Co. booth. This is a power sweeper operated with a



sealed hydraulic drive system. Using one pedal, the operator can go forward, reverse, change speeds, and apply the brakes. A constant engine speed maintains constant broom speeds.

Hydra-Action Co.

Circle 173 on Reader Service Card

A Broad Range Of Lift Trucks

Lewis-Shepard demonstrated electric-powered and hand-operated trucks under working conditions. Among the trucks were the newly-developed JackStacker for stock picking (see photo). It's a low silhouette, counterbalanced unit with 24-volt power and components throughout.

Capacity is 2,000 and 2,500 lb. Operator can ride the truck and can easily see the high stacking forks regardless of position.

Lewis-Shepard showed a new battery-operated high stacking Walkie, the Tote-



master. It has a built-in charger unit. Other electric-powered trucks included sit-down models, StanDrive models, SitDrive models, narrow aisle and rider type high stackers, straddle and counterbalanced high lift walkies, low-lift walkies, low-lift hydraulics, and hand operated stackers.

Lewis-Shepard Products, Inc.

Circle 174 on Reader Service Card

Strapping Made Easy

United States Steel Supply Division's portable pneumatic Model 13 Strapping Machine straps large, irregular shapes.



Model 12 Strapping Machine makes large scale bundling and packaging a pushbutton operation. Both use high tensile round strapping.

U. S. Steel Supply Div.,
United States Steel

Circle 175 on Reader Service Card

Handles Hot Aluminum Liners

All Vac-U-Lift Company units recently developed were on display. Among them was a special unit for handling hot

Along The Aisles



aluminum liners. Overhead track unit has 15' pad beam specially designed to

take hot aluminum liners approximately 16' x 6' x 3" from a moving conveyor and transfer them to a stack. The liners, at a temperature of about 700 degrees F., are picked up with specially designed high temperature Pyro Pads. They have special seal rings designed for temperatures in excess of 700 degrees F.

Vac-U-Lift Co.

Circle 176 on Reader Service Card

Show Two Carts

Bay Products has two new carts. One is a spanking new library book truck. The other (see photo) is the three-tray stock

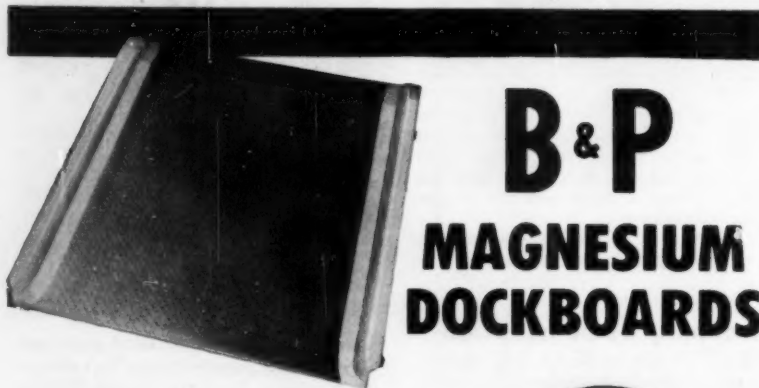
cart, called the Trip Saver. This cart enables one man to handle up to 500



lb. The cart comes in two sizes, 16" x 30" for narrow aisles and 24" x 36" for larger loads. Construction is all steel.

Bay Products, Inc.

Circle 177 on Reader Service Card



—engineered by the builders of the Vanguard Earth Satellite Sphere

COMPARE THESE IMPORTANT FEATURES:

- ✓ Exclusive, rugged forged ends on one-piece curb
- ✓ Full length hand grip for safe handling from any position
- ✓ Yellow lane markings on all boards
- ✓ Heat treatment after welding for longer life

Compare all the B & P features! Write today for the fact-packed B & P Dockboard folder.



BROOKS & PERKINS, Inc.

1922 WEST FORT STREET • DETROIT 16, MICHIGAN

60-MH-4

AMERICA'S LARGEST MANUFACTURER OF MAGNESIUM ASSEMBLIES

Circle 14 on Reader Service Card

Junior Added To Family

Junior Palletainers handle, store, and transport small parts. They are sturdy, close-meshed, all-steel containers newly



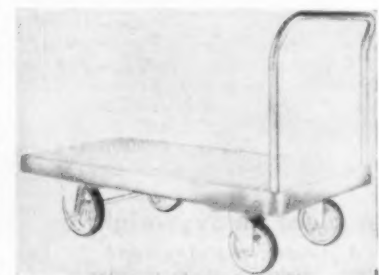
developed especially for the purpose by Union Steel Products Co. Junior stacks to nearly any height, moves easily on hand floor trucks or regular lift trucks. They fold down flat, too, save 75% of storage and return freight space.

Union Steel Products Co.

Circle 178 on Reader Service Card

Unitized All-Aluminum Trucks

Nutting Truck and Caster Co. says you get more payloads, longer service from Structo-Lite trucks. Frames are welded



MATERIAL HANDLING ILLUSTRATED

structural aluminum, save a third in weight. Running gear is bolted on, not welded, for quick and easy replacement.
Nutting Truck & Caster Co.

Circle 179 on Reader Service Card

Automatic Switching For Towlines

Need a simple, thrifty, mechanical way to dispatch and switch your carts? SI



Handling Systems, Inc. has the answer. Set a dial on sWitch-Cart 600 for fool-proof, automatic towline transportation in new or existing warehousing and manufacturing operations.

SI Handling Systems Inc.

Circle 180 on Reader Service Card

New Locking Angle

Acme Steel Co.'s Fabricated Materials Division featured a new storage rack system. The rack, installed without tools, has

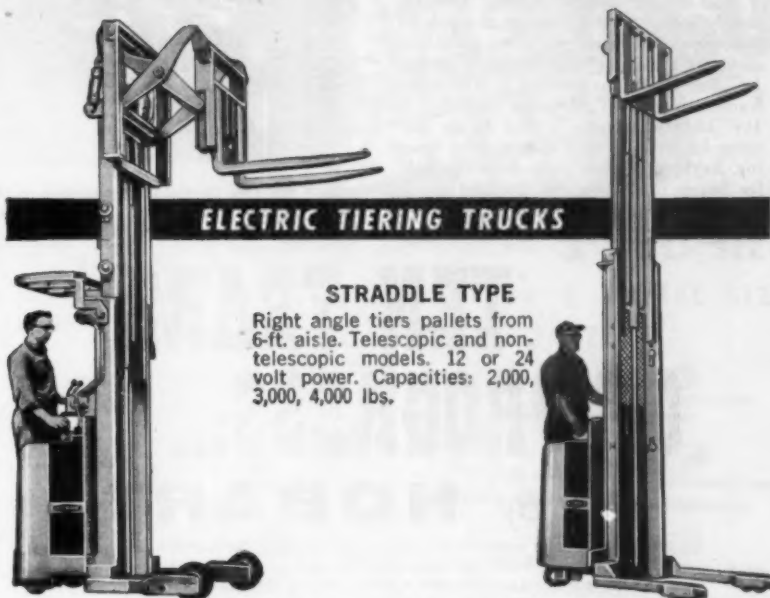
EQUIPMENT IN ACTION



STENCIL your steel drums easily and quickly with Reynolds Inks in aerosol cans. You can get inks in nine colors which dry almost at once, are weather and waterproof. This worker uses brass stencils in two parts, one for red, and other for blue. Sometimes he uses white paint to whiten a drum head when needed. The inks are useful for any kind of container.

Circle 181 on Reader Service Card

These **RAYMOND** Trucks Make NARROW aisles possible!



ELECTRIC TIERING TRUCKS

STRADDLE TYPE

Right angle tiers pallets from 6-ft. aisle. Telescopic and non-telescopic models. 12 or 24 volt power. Capacities: 2,000, 3,000, 4,000 lbs.

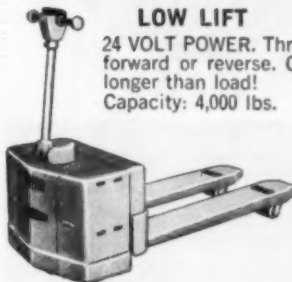
REACH-FORK®

Operates in aisles as narrow as 6-ft. with existing racks and pallets. Forks reach out to pick up or deposit load. 12 or 24 volt power. Capacities: 2,000, 3,000, 4,000 lbs.

ELECTRIC WALKIES

LOW LIFT

24 VOLT POWER. Three speeds forward or reverse. Only 20½" longer than load! Capacity: 4,000 lbs.



STACKER

Tiers 2,000 lb. pallet load 10 feet high from 6½ foot aisle. 24 volt power. Three speeds forward or reverse.



SEND FOR FREE BULLETINS!

Whether your operation is small, involving only occasional handling, or big, where tons of goods are moved daily, investigate the dollar and space-saving possibilities of RAYMOND narrow aisle trucks. Send for bulletins today!

THE RAYMOND CORPORATION

30107 Madison St., Greene, N.Y.

Please send FREE bulletins:

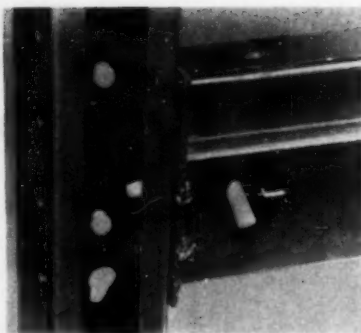
() Reach-Fork () Straddle
() Walkie Low-Lift () Walkie Stacker

NAME _____ TITLE _____
COMPANY _____
STREET _____
CITY _____ STATE _____

Circle 56 on Reader Service Card

Along The Aisles

a load-locking device. A steel bolt fits snugly into a round hole in the side of a column. It can be put in or taken out easily by hand. But once locked, it cannot be disengaged accidentally. The rack frames are 3" x 3" columns with 1½" x 1½" channel sections welded to the columns for front to back and diagonal bracing. Keyhole slots on the columns provide for beams on 2" centers. Stamped markings show you where to place the beams,



which are two overlapping channels with three load bearing points. The standard

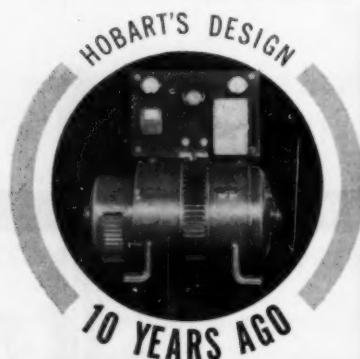
frame has a 23,000-lb capacity; heavy duty, 30,000-lb capacity. Stock frame heights range from 6 ft to 12 ft in 1 ft increments and depths are 28", 32", 36", and 44". Other sizes available on request. Beams come in stock lengths of 42", 46", 54", 70", 82", 94", 106", and 120". The rack is good for heavy duty storage of pallet and skid loads, dies, drums, pipes, tubing, and others. It's ideal for ceiling to floor storage.

Acme Steel Co.—Fabricated
Materials Division

Circle 182 on Reader Service Card

TEN YEARS OF PROGRESS... By HOBART

Just as the electric motor freed industry from the restrictions of line shafting, the motor-generator provides even greater advantages such as "on-the-spot" conversion from a.c. to d.c. power. A typical application in the materials handling field is for battery charging.



For the last ten years Hobart has kept pace with the design and development of motor generators for charging electric industrial truck batteries. Hobart quality and reliability, backed by local service that is unsurpassed in the industry, make it the leader in its field.

MAJOR DESIGN CHANGES...

For "on-the-spot" charging by inexperienced personnel include:

- Completely enclosed dead-front construction for operator safety and component protection
- Hobart Charge Control for foolproof operation and easy equalizing
- Input and output cables for quick installation
- Generator design for factory-set charging rates

Other changes include more efficient basic electro-mechanical design that facilitates easy modification by the customer for installation of recycling and remote controls, ampere-hour and cell selectors, etc.

Today, MGC manufactures a complete line of battery-matched Hobart Generators for the smallest motorized hand to the largest rider type truck batteries, in either single or multiple-circuit design. Follow the trend by looking to HOBART for the latest developments in motor-generator battery charging equipment.

If you would like to know how you can use a Hobart Charger to profit, your letter sent to the address below will bring a prompt response.



MOTOR GENERATOR CORPORATION
(Hobart Brothers Affiliate) Box MHI-660, Troy, Ohio

Circle 50 on Reader Service Card

Low Headroom

Mercury Mfg. Co. featured its new Low Silhouette fork truck, designed especially for low headroom. Three models are



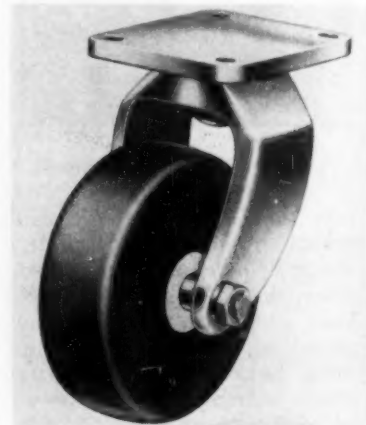
rated at 2,000, 2,500, and 3,000 lb capacity at 24" load center. With a 68" lowered mast height, the standard telescopic lift is 100". New features are the drive assembly, steering, lifting mast, tilt arrangement, ITA fork carriage, and frame design.

Mercury Mfg. Co.

Circle 183 on Reader Service Card

Sanitary Caster

The Bassick Co.'s recently developed line of sanitary casters includes the "B-



Line" of light duty aluminum casters. These are designed for use in applications where corrosion is a problem. Series

"BA" and "BB" are designed in compliance with the Sanitation Standards of the Baking Industry.

The Bassick Co.

Circle 184 on Reader Service Card

Skid Turner Has 55-Second Cycle

Southworth Machine Company's new model ST-5 Skid Turner is a speedy, low

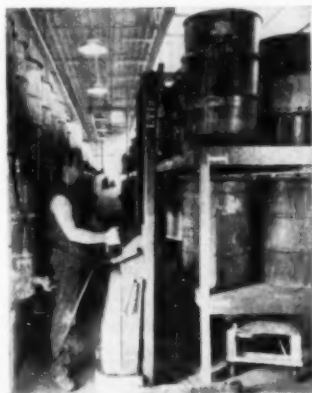


cost, portable skid turner that's completely automatic. Eliminates the costly process of turning skids of material by hand.

Southworth Machine Co.

Circle 185 on Reader Service Card

EQUIPMENT IN ACTION



HOW TO HANDLE open top, 55-gallon drums of volatile paint presented a problem to Columbus Coated Fabrics Corp. Engineers from The American Pulley Co. suggested a special portable elevating truck with an air-powered lifting clamp. They ran an air line around the drum storage room with hose connections every 10 ft. Photo shows the truck lifting a drum. The clamp holds the drum with the hose unplugged. The truck then moves to an unloading point or machine area.

Circle 186 on Reader Service Card

Available NOW

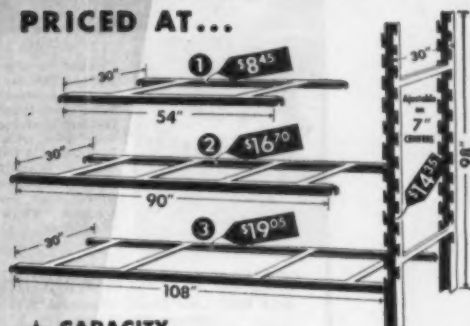


STANDARD SIZE PALMER-SHILE Adjustable STORAGE RACKS

SERIES
60
Pat. App. For



- 3 SHELF SIZES
 - 1 PANEL SIZE
- PRICED AT...



★ CAPACITY
5000 lbs. per shelf ★
All prices F.O.B. Detroit, Michigan

★ IMMEDIATE DELIVERY FROM STOCK ★

JUST TWO STEPS—SET UP PANELS
SNAP SHELVES IN POSITION



Standard racks can be joined in multiple sections of the same shelving length, or any combination. Shown here are sections with the three different shelving sizes, adjusted to various storage openings.

LOW COST P-S Standard Series 60 Racks are ideal where fast action is necessary to solve your storage problem.

Built of sturdy steel channel they are capable of handling almost any kind of materials and merchandise on pallets, skids, boxes or barrels. Come in four pieces—A. Vertical PANEL 8½' high, 30" deep and 2½" wide with shelves adjustable to 7" centers.

B. THREE DIFFERENT SHELF LENGTHS 4½', 7½' and 9' each 30" deep. No small parts, set entirely by hand, top shelf can be flush. Standard racks can be joined in multiple sections of the same shelving lengths, or any combination.

★ Can Be Built To Customer Specifications

DESIGNED AND MANUFACTURED BY

Palmer-Shile Co.

16047 FULLERTON AVE., DETROIT 27, MICH.

Offices In Principal Cities

EXPORT OFFICE: 75 WEST STREET, NEW YORK 6, N. Y.

Circle 55 on Reader Service Card

Circle 27 on Reader Service Card

HOW TO SAVE SPACE WHEN STORING GOODS IN PROCESS USE

- Corrugated metal boxes
- Battery Electric Lift Truck



Stacked in one-ton units, the metal parts in process are piled close together for maximal use of floor area with an Economy Battery Electric Worklifter. No other truck saves floor space like a Walkie-Worklifter.

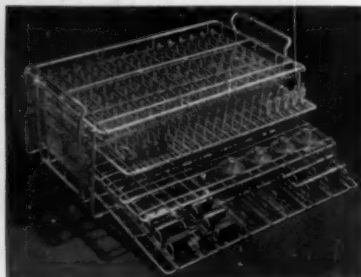
ECONOMY Walkie-Worklifter

4504 West Lake Street, Etebrook 8-9110
Chicago 24, Illinois

Along The Aisles

Carry Small Parts Easily

The material handling Carryer protects the surfaces of small precision parts dur-



ing processing, cleaning and storage. A locking, hinge-side Carryer has supports to accommodate removable shelf inserts. Shelves can be made to suspend various similar parts.

Midwest Wire Products Co.

Circle 187 on Reader Service Card

New Lift Trucks

Allis-Chalmers Manufacturing Co. introduced three new lift trucks. Their capacities are 3,000, 4,000, and 5,000 lb. They are powered by gasoline or LP gas engines with a maximum 52 hp. You also

can get them with diesel power. Transmission either is standard or Power-Shift Torque Converter Drive. Truck design per-



mits speedy servicing. A safety feature is the new emergency brake with two shoes that expand internally to the emergency brake drum for positive holding. It's independent of the standard hydraulic brake system. The trucks are rugged, economical, comfortable, and safe.

Allis-Chalmers

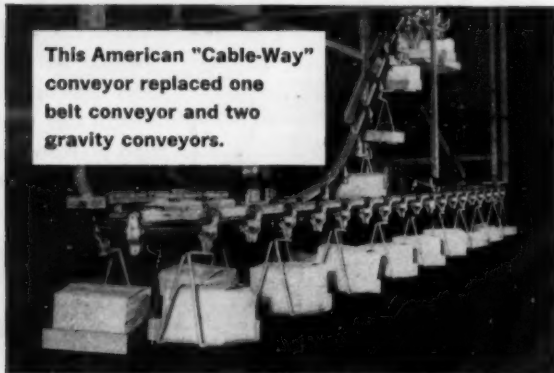
Circle 188 on Reader Service Card

Improved Battery Plate

The Industrial Division of Gould-National Batteries, Inc., had the Siliconic battery plate on display. The Gould patented process is said to result in a plate with 10-25% longer life and improved elec-

AMERICAN "CABLE-WAY" ELIMINATES SPOILAGE!

This American "Cable-Way" conveyor replaced one belt conveyor and two gravity conveyors.



Installed at Danner Press of Canton, Inc., Canton, Ohio

Unattended, a smooth-running, 240-foot American "Cable-Way" conveyor moves lightly-wrapped bundles of magazines from bindery to shipping without damage. Collision-spoilage occurred frequently with the former gravity and powered-belt conveyor systems, which required three attendants. The "Cable-Way" conveyor cost only a little more than a medium-priced automobile.

Write for Calalog CD-B.

© THE AMERICAN MONORAIL CO. • 1960



CONVEYOR DIVISION
THE AMERICAN MONORAIL CO.

Fourth & Franklin Streets • Tipp City 18, Ohio

Circle 4 on Reader Service Card

IDEA FOR LOW-COST PRODUCTION LINE

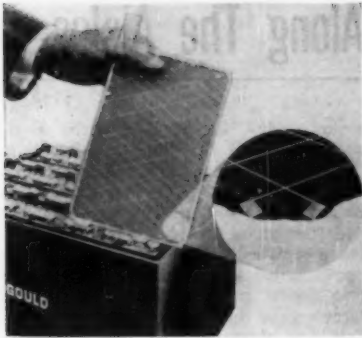
Build your own assembly lines with inexpensive angle-iron tracks and these novel Bassick grooved wheel casters. They give you easy flow of parts and finished products... better utilization of floor space... economical means of handling heavy loads... money-saving protection of floor surfaces. Equally useful in solving materials handling and product assembly problems. 8-page brochure gives the facts. THE BASSICK COMPANY, Bridgeport 5, Conn. In Canada: Belleville, Ont. 04



Symbol of
Bassick
STEWART-WARNER CORPORATION

Circle 8 on Reader Service Card

MATERIAL HANDLING ILLUSTRATED



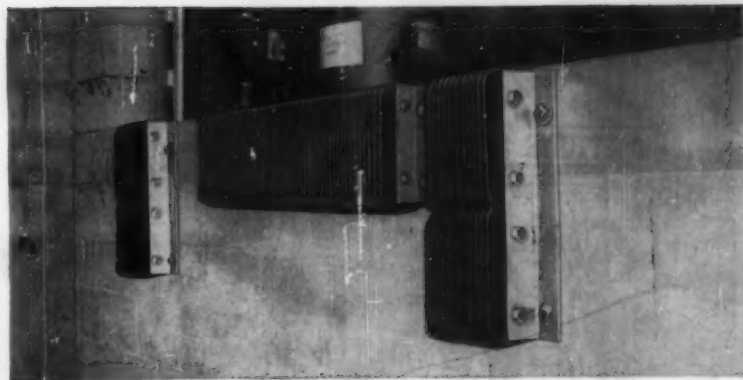
trical characteristics. All models of the Thirty and Kathanode lines are available with the plate.

Gould-National Batteries Inc.

Circle 189 on Reader Service Card

Induce Vibration

Displays of Vibrolator vibration inducers and a full line of accessories and



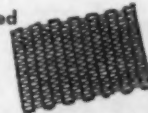
Timber Toothpicks or RESILIENT RUBBER ... Which? -- No. 1 or No. 2

1 Dock timbers soon become splintered — require frequent replacement. Shocking to your docks — Costly to you!

2 Durable Resilient Rubber Dock Bumpers are guaranteed for five years — and impact tests prove 81% absorption.

Is it any wonder that economy minded industries and truck lines install Durable Dock Bumpers?

Why don't you?? — and insist on guaranteed Rubber Dock Bumpers by



DURABLE MAT COMPANY

75 N. Pleasant St., Norwalk, O. • 755 Kifer Rd., Santa Clara, Calif.

Yale Midget King

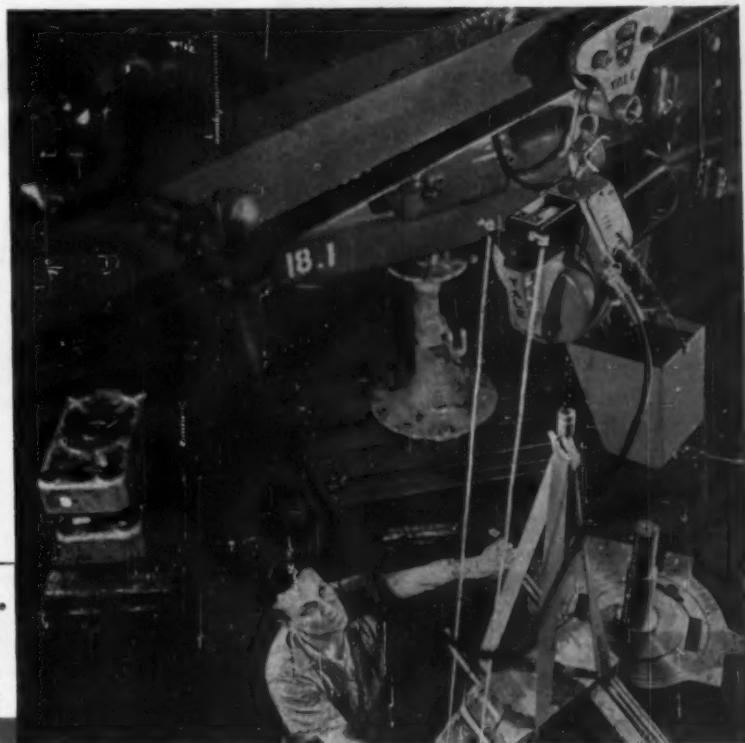
link chain hoists are the newest development in the full line of Yale lightweight electrics. The versatile Midget King lets the operator pick up material not directly under the hoist itself because the durable alloy type link chain flexes in any plane. Easy to move and store, the Midget King can be operated for less than two cents a day. Hook or trolley models are available, in capacities of 1/8, 1/4, 1/2, 1 & 2 tons. Hoist-and-load protecting upper and lower limit stops plus two brakes provide positive safety. Hardened alloy steel gears assure lengthy, economical service. Roller chain models of the Midget King are also available. The complete line of Yale hand, air and electric hoists is ready for you—to accomplish any overhead handling task.

Contact your Yale distributor listed under "Hoists" in the Yellow Pages of your phone directory. Or write for brochure #577H to The Yale & Towne Manufacturing Co., Yale Materials Handling Div., Phila. 15, Pa., Dept. MH2.

YALE

INDUSTRIAL LIFT TRUCKS
TRACTOR SHOVELS • HOISTS

YALE & TOWNE



Yale Materials Handling Division, a division of The Yale & Towne Manufacturing Company. Manufacturing Plants: Philadelphia, Pennsylvania; Forrest City, Arkansas. Products: Gasoline, Electric, Diesel, LP-Gas Industrial Lift Trucks • Worksavers • Warehouse • Hand Trucks • Industrial Tractor Shovels • Hand, Air, Electric Hoists



*Why Pay Through
the Nose in an
Antique Shop!*

SAVE WITH SAGE CONVEYORS

Nothing empties your pockets quicker than an antique shop. Beware of obsolete material handling equipment and methods in your own shop! Everywhere, men responsible for profits are using SAGE Quality-Built Conveyors. Learn how you will save with SAGE low cost, standardized, off-the-shelf, do-it-yourself, straight, curved, switching and ball transfer conveyor sections and accessories.



SAGE steel and aluminum gravity wheel, roller and power conveyors give you wide choice. Write or phone for SAGE Free Conveyor Selection Guide No. SA-101 right now. See yellow pages of your phone directory.

SAGE EQUIPMENT CO., INC.

36 Essex St., Elmwood 5242, Buffalo 13, N. Y.
Engineers, Manufacturers and Installers



Along The Aisles

mounts were shown by Martin Engineering Co. A new line of heavy duty vibrators was introduced. Also featured was the lightweight (4½ oz) BD-10 (see photo). This new unit has all the power and strength of its 11-oz predecessor. It has a replaceable jet for greater air economy. Vibration comes from a rolling ball driven in an orbit on replaceable raceways of hardened high alloy steel. You may obtain it in natural aluminum finish at no extra cost.

Martin also showed a new electric vibrator which has its vibrational orbit close to and parallel with the hopper wall. This eliminates the need for a reinforcing plate on even the thinnest hopper materials. Quick clamp mounts enable it to be moved quickly and easily. Called the DHE-111, it offers stepless speed control from 2,000 to 10,000 VPM.

Martin Engineering Co.

Circle 190 on Reader Service Card

For Narrow Aisle

Narrow aisle handling was featured by The Raymond Corp. Included was the



new heavy duty model shown here. Powered by a 24-volt electric system, it provides faster lifts and travel speeds. It has 4,000-lb capacity.

The Raymond Corp.

Circle 191 on Reader Service Card

The NEW *Travelift* VERTICAL LIFT CARRIER Solves HEAVY MATERIALS PIGGY BACK - CONTAINER handling problems

- Self-Propelled
- Hydraulically Operated

Requires only one man to operate! Steering, lifting and propulsion of the Self-Propelled Travelift are by hydraulics. Turning radius of this free-traveling vertical lift carrier is short and maneuverability excellent.



TRAVELIFT'S CAN HANDLE

FREIGHT CONTAINERS
TRAILER BODIES
TANKS . . . PIPES
BOATS . . . WIRE CLOTH
OTHER HEAVY MATERIALS

Travelift offers 25 models with rated capacities up to 100,000 lbs., or can be custom built to your requirements. Available in self-propelled, tractor propelled and rail mounted equipment styles.

TRAVELIFT & ENGINEERING, INC.

Dept. MH,
Sturgeon Bay, Wisconsin

NAME

ADDRESS

CITY

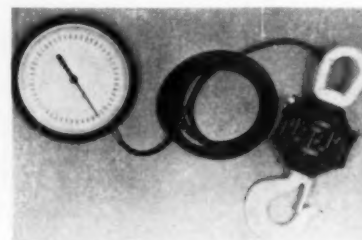
Please send information on the
SELF-PROPELLED TRAVELIFT

STATE

Circle 68 on Reader Service Card

Crane Scale Remote Reading

Save time and money. Weigh and handle material in one operation, says



MATERIAL HANDLING ILLUSTRATED

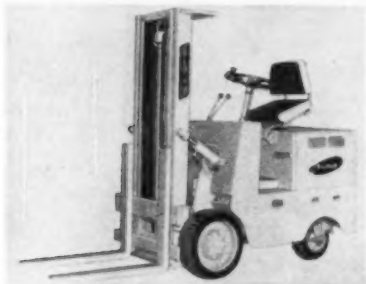
Martin-Decker Corp. Their Remote Indicating Crane Scale works with your overhead crane. It solves the problem of convenient, accurate readability in an easy-to-handle, compact system. The crane hook picks up the load element. Weight shows on the indicator mounted at eye level close to the operator. There are no "O" rings. Accuracy meets Bureau of Standards specs.

Martin-Decker Corp.

Circle 192 on Reader Service Card

Major Parts Interchangeable

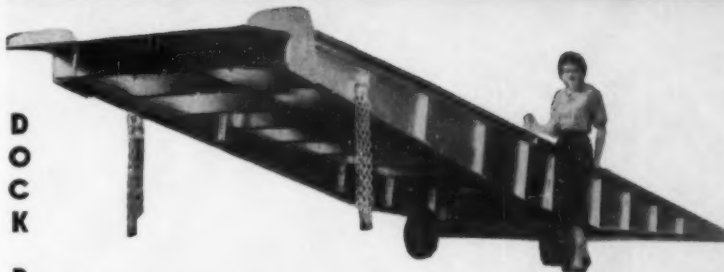
You stock fewer parts, switch major assemblies from one truck to another in



the Elpar Acro-Smooth electric fork truck line. Elwell-Parker Electric Co. had the story of their fully integrated line at their booth. They also displayed a Cargo Scout standup truck with a hydraulic dump

Circle 21 on Reader Service Card

lite-line Mobile Yard Ramps



D
O
C
K

B
O
A
R
D
S

The dock that goes to the job will cut your loading costs

A Lite-Line Yard Ramp moves easily into position, to load or unload truck or rail car.

SAFE • RUGGED • LIGHTWEIGHT

For complete information write to

lite-line
MAGNESIUM DOCK EQUIPMENT

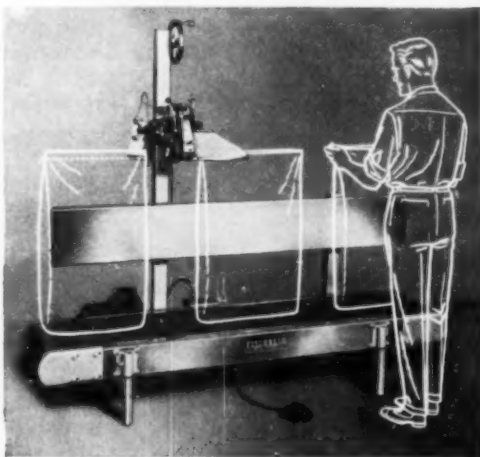
LITE-LINE METAL INDUSTRIES
DIVISION OF
COPPERLOY CORP.
Cleveland 35, O.

P
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FISCHBEIN

**LOW COST
EFFICIENT**

BAG CLOSING EQUIPMENT



AUTOMATIC MODEL BA-6

Bags start the sewing operation when they reach the head. After sewing, thread is cut automatically and conveyor belt continues to move bag. Instantaneous start/stop controls.

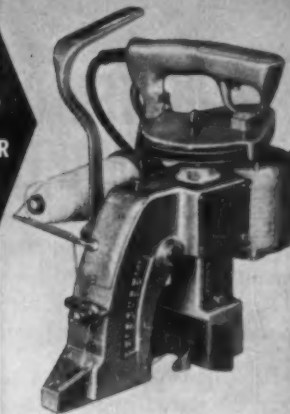


FISCHBEIN
Portable
BAG CLOSER
MODEL C



FASEAL TAPE BINDING ATTACHMENT

- Produces perfect tape-bound closures.
- Complete portability maintained.
- Can be quickly removed when tape-binding is not required.



- Total weight, only 10 1/2 pounds.
- Requires no installation, supports or plant space . . . merely plug into any electrical outlet.
- Handles all textile and paper bags.
- Closes average 100 lb. bag in less than 6 seconds.

Write for complete
Catalog File of
Bag Closing Equipment.

FISCHBEIN
BAG CLOSING
EQUIPMENT

DAVE FISCHBEIN CO.

2730 30th Ave. S., Dept. MH
Minneapolis, Minn., U.S.A.

Circle 33 on Reader Service Card



GO-GETTER CUTS COSTS IN HALF; MAKES JOB SAFER

A leading chemical plant faced with the double explosion hazard of ethylbenzene fumes and aluminum chloride dust, solved its material handling problems — and saved money in the process — through the use of Revolvator's new fork lift trucks labeled Type Ex by Underwriters' Laboratories for Class 1 Group D explosion hazardous areas.

Previously, two men with a hand truck were required for this operation. Since the introduction of the Explosion Proof Go-Getter, one operator easily charges the hoppers in a safe manner with a minimum effort. "What used to be a dangerous, disagreeable job has now become a simple task," says the plant manager.

The explosion proof Go-Getter, available in 12 standard models, is but the latest development in Revolvator's better than a half century of experience in materials handling equipment covering standard walkie lift trucks, hand lift trucks, portable elevators and related equipment.

REVOLVATOR CO.

8719 TONNELE AVENUE, NORTH BERGEN, N. J.
SINCE 1904

Circle 58 on Reader Service Card

Along The Aisles

attachment, and another truck with a revolving paper clamp.

Elwell-Parker Electric Co.

Circle 193 on Reader Service Card

Structural Clamps

Merrill Brothers showed much of its line of clamps and material handling devices. Among the exhibits was this 2-ton



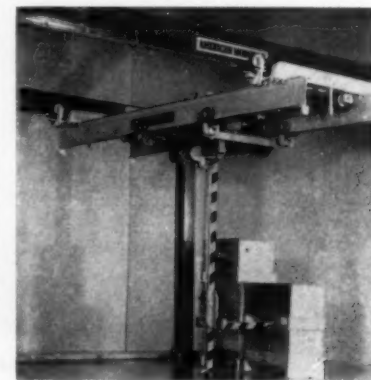
structural clamp. It features a short leg which provides a secure bite even on small beams. The clamp, drop forged, is light weight compared with its capacity. Grip range is up to 1 inch. It has been 100 percent proof tested at 6 tons with a safety factor of 5:1. Merrill also presented a universal joint clamp, an automatic safety lock fork lift attachment, a drum lifter, hand clamp, and others.

Merrill Brothers

Circle 194 on Reader Service Card

Stacker Crane Shown

A working model of a stacker crane was presented by American MonoRail Co. Representatives



demonstrated advantages of the stacker crane. Stackers have either a rotating mast with a lift or a tubular

Circle 6 on Reader Service Card

The junior-priced production lift that does a king size job Autoquip's LITTLE HERKY



only
\$595⁰⁰
f.a.b.
Chicago



Little Herky . . . the new Autoquip Porta-Lift table that's tops for versatility . . .

unsurpassed for whatever the raising, lowering, feeding, receiving, stacking, palletizing, positioning, sorting, or leveling job! Increase your speed from feeding and receiving of machines and conveyors to raising and lowering of heavy materials.

Low cost and accelerated production ability make Little Herky important to your operations. Get complete information—today!



Versatility unlimited! Whatever the materials handling job, Little Herky means maximum efficiency!

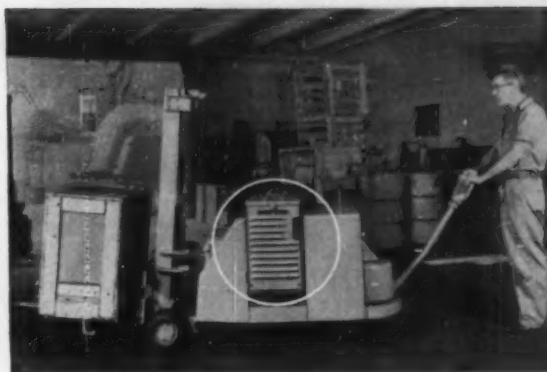


Little Herky weighs only 330 pounds . . . readily lifts 2,000 pounds!

Autoquip CORPORATION

1140 SOUTH WASHTENAW • CHICAGO 12, ILLINOIS

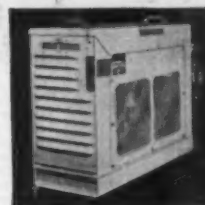
Circle 57 on Reader Service Card



The Most Versatile Power Unit Ever Developed for Small Trucks

READY-POWER BANTAM MODEL W

Only the compact new Model W provides smooth, dependable gas-electric power that can be interchanged from truck to truck. You get full-time electric power and high engine performance. Fits most trucks up to 2000 lbs. Write for information on the new Model W.



READY-POWER

The READY-POWER Co., 3844 GRAND RIVER AVE., DETROIT 8, MICH.

Manufacturers of Gas and Diesel Engine-Driven Generators and Air Conditioning Units; Gas and Diesel-Electric Power Units for Industrial Trucks

4 reasons why you should use Equipto Angle...

1. STRONG —

Combinations of Equipto Angle can be used to insure proper structural strength to support any weight.

(Photo shows demonstration of strength, not a product application)



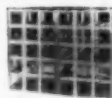
2. FAST —

Equipto Angle is marked every 3" for accurate cutting. One stroke cutter positions and cuts angle to correct length.



3. SIMPLE —

Equipto Angle is exceedingly swift and easy to assemble. All you need is a wrench.



4. INEXPENSIVE

No welding . . . Hot dipped galvanized finish. Can be dismantled and reused again and again.

May be used for building stairs, guard rails, ladders, racks, etc. Available in 2 sizes, 2 gauges, in 10 or 12 ft. lengths, 10 pieces to a bundle including nuts and bolts. Write for free IDEA BOOK 299.

Equipto

806 Prairie Avenue
Aurora, Illinois

Circle 29 on Reader Service Card

A BRAND NEW IDEA IN
TOTE BOX

POPS OPEN FOR IMMEDIATE USE! SHUTS FLAT FOR RE-USE!

*Tops In
Economy
for Material
Handling!*

Costs only a fraction of rigid totes. Here's double-utility value: for carrying parts and storage of inactive items. Will hold all the weight a man can carry. Double-walled corrugation construction provides exceptional stacking strength. Shipped flat and stored flat—take up minimum space. Find out for yourself how MIRACLE TOTES can benefit your plant and warehouse.

* The PAIGE Company *

95 MADISON AVE., NEW YORK 16, N. Y.

Send new Brochure on MIRACLE TOTE BOX **MHI 660**

INDIVIDUAL _____ TITLE _____

FIRM _____

ADDRESS _____

CITY _____ ZONE _____ STATE _____

Circle 54 on Reader Service Card

Circle 26 on Reader Service Card

HOW TO FILL ORDERS FAST AT HALF THE COST

USE Battery electric lift truck with
"hitch-hiker" platform.



The user reports
Walkie-Worklifters
reduce manual labor
50%, permit greater
use of space in
this new warehouse
with racks 14 feet
high and aisles four
feet wide. The op-
erator rides on an
auxiliary platform.
Truck is powered by
industrial battery.

ECONOMY Walkie-Worklifter

4304 W. Lake Street, Elmhurst 8-9110
Chicago 24, Illinois

Along The Aisles

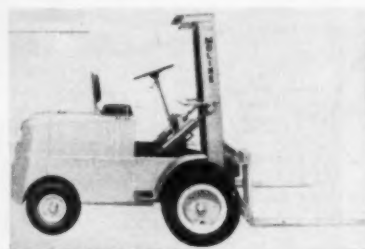
mast with a rotating and lifting mechanism. They hang from a crane truck for movement on standard double-bridge cranes. Movement can be manual or power operated. The stacker comes with attachments for lifting pallets, rolls, drums, or other loads. The device is highly maneuverable. It requires aisle width of the load length and 18 inches.

American MonoRail Co.

Circle 195 on Reader Service Card

Show Truck Line

Minneapolis-Moline Co. showed a Mobilift standup gas fork lift truck with end



control, an electric Mobilift counterbalanced rider type truck, and an electric straddle Mobilift rider type truck. The firm

recently entered the field with its ET 68 fork lift truck (photo). This truck line has capacities up to 10,000 lb and lifting height up to 20 ft.

Minneapolis-Moline Co.

Circle 196 on Reader Service Card

Wall Stretching Idea

Reclaim valuable floor space, says Dolin Metal Products. Store in 8 rows with only



one aisle. Track mounted steel shelving is the secret. You may add 30-100% more productive equipment in the floor area made from wasted aisles.

Dolin Metal Products, Inc.

Circle 197 on Reader Service Card

Add Power Steering

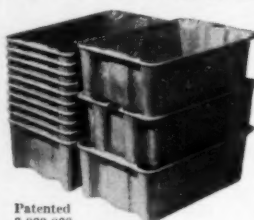
The Ready-Power Co. showed a power steering unit that can be installed on trucks in the field quickly and easily. It will give you full-time power steering without interfering with other operations.

LEWIS TOTE PANS

are

STRONG

One-piece fiberglass molded construction; can't rust, rot, dent or bend. Stack-n-Nest® pans handle up to 3000 lbs. safe static load. Available in 8 sizes, three attractive molded-in colors.

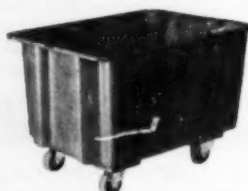


Patented
2,823,828
2,823,829



LIGHTWEIGHT

Lighter than an aluminum pan of the same size, these general purpose Lewis fiberglass pans handle bigger payloads with less effort.



... versatile

This Stack-n-Nest® truck is only one of the many different Lewis containers, each designed for a variety of handling operations. There are trays, pans, boxes, and trucks to fit all your handling requirements.

G. B.

Lewis

COMPANY

706 MONTGOMERY STREET • WATERTOWN, WIS.

Circle 43 on Reader Service Card

THERN HOISTS

Guaranteed Performers

... at Lower Cost!



DIFFERENTIAL HOISTS

Lightweight, durable, smooth working. Available in "Royal" and "Ekon" models. Factory tested at twice rated capacity.

Model 331G
1/2 Ton \$26.15
Model 333G
1 Ton \$40.95



Ideal in limited quarters. Easy portability makes this an excellent utility hoist for lifting, pulling, tightening.

Model 20P
1/2 Ton \$42.50
Model 30P
3/4 Ton \$55.25

GUARANTEE—All Thern hoists are factory tested at twice rated capacity and are fully guaranteed.



NEW THERN SPUR GEAR HOIST

High strength, light weight aluminum alloy casing. Fully enclosed parts . . . precision load control. Sizes up to 10-ton capacity.

1/2 Ton Size \$125.00
1-Ton Size \$158.00



Write for catalog on full line of portable hoists and shop cranes.

THERN MACHINE CO.

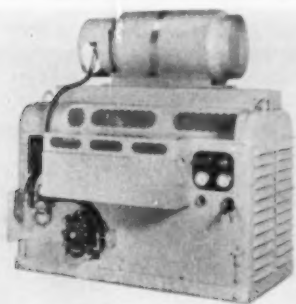
3762 West 4th St.

Winona, Minn.

Circle 66 on Reader Service Card

MATERIAL HANDLING ILLUSTRATED

The Ready-Power Company also demonstrated the Model HA-3 gas-electric model.



This power unit has been engineered for installation on sit-down type electric trucks in the 2,000 to 5,000 pound capacity range.

The Ready-Power Co.

Circle 198 on Reader Service Card

Truck Cuts Down Warehouse Size

Towmotor Corp. presented its Naro-Aisle-Stack Model 590. A demonstration showed how Model 590 can save 50 percent of warehouse space because it needs no more than a 6-ft aisle. Entire front end of the unit pivots 180 degrees, 90 degrees to right or left. Hydraulically-operated outriggers stabilize the lift truck laterally while pivoting. Model 590, with a lifting speed of 70 fpm, also is used as a regular fork lift truck. Among design in-



Ball Brothers cut handling costs with Self-Dumping Hoppers

Here's how Ball Brothers Company of Muncie, Indiana, manufacturers of glass containers, solved cullet handling problems, eliminating slow, costly manual labor. They formerly used wooden boxes, vats, steel barrels and man power. This method was slow, cost of handling high. Now, 80 Roura Self-Dumping Hoppers are stationed under the firm's container-forming machines. Molten scrap glass is shunted down chutes into waiting Hoppers. A standard lift truck picks

up full Hoppers and transfers them quickly to a cullet crusher. With the flip of a latch, the Hopper automatically dumps its load, rights itself, locks itself, ready for another load. One man does the entire handling job.

Roura Self-Dumping Hoppers fit any standard lift truck... handle wet or dry, hot or cold bulky materials. When there are problems of contamination or corrosion, stainless steel or stainless lined hoppers can be supplied.

ROURA
Self-Dumping
HOPPER



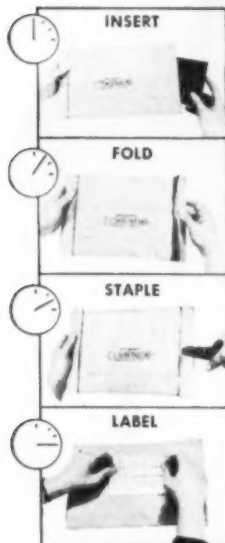
WANT MORE DETAILS? Attach this coupon to your letterhead and mail to

ROURA IRON WORKS, INC.

1408 Woodland Ave., Detroit, Michigan

jet-pak®

CUSHIONED-INSULATED SHIPPING BAG



SPEED

CUTS DIRECT LABOR COST!

Only 15 seconds or less to package semi-fragile small units—ready for mailing! Simple and complete—JET-PAK eliminates all waste motion—speeds packaging process—cuts labor time to the bone. JET-PAK cushions contents with millions of tiny paper particles held between double-walled, asphalt-laminated KRAFT—completely protects against damage, rain, heat or cold. Security cleared by U.S. Post Office drop tests. Inexpensively imprinted at factory. Very inexpensive to buy. See for yourself.

Send for set of free samples—Today!

jet-pak

Packaging Division

Columbian Rope Company

Auburn "The Cordage City" N. Y.



Circle 20 on Reader Service Card



LOW Initial Cost
INEXPENSIVE
to install
EASY
to Operate

AERO-BOARD

Air Powered Hydraulic DOCKBOARD

CUSTOM ENGINEERING SERVICE

The standard AERO-BOARD is adaptable to most docks, but if it does not fit your requirements, Freightliner will custom engineer and manufacture AERO-BOARDS for your specific needs.

DEALER INQUIRIES INVITED

The time and work proven standard AERO-BOARD is easily installed on most docks—NEW or old—flush or bumper type. Its unique design gives you a rugged, safe, easy-to-operate, manual-automatic dockboard that requires NO ELECTRICAL CONNECTIONS.

When it is not in use it stores upright out of the way. It's lowered and raised by an "air-over-oil" hydraulic system from power supplied by the air system which is standard on many docks.

The AERO-BOARD "kit" —ready to install—is ONLY... **\$410**

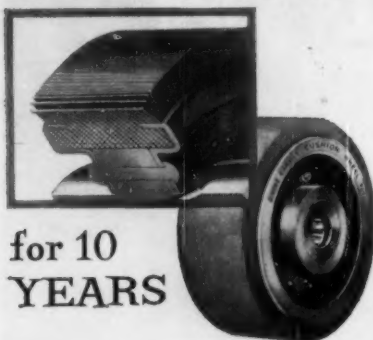
Write for complete specifications and name of nearest dealer. Sold and Serviced by Leading Materials Handling Equipment Distributors.

Mfd. by **FREIGHTLINER CORPORATION** Dept. 6C, Box 3591 Portland 8, Ore.

Circle 30 on Reader Service Card

Circle 23 on Reader Service Card

GUARANTEED



for 10
YEARS

The CANVASBAK

- First Cost is Final
- Fully Floor Protective
- Will Not Smudge
- Fits All Trucks or Casters
- Does Not Chip or Chunk Out
- Wears Like Iron

Ask DIVINE for full information. Better yet, first ask a DIVINE user. Then you'll be sure to ask us.

DIVINE BROTHERS CO.
200 SEWARD AVENUE
UTICA 4, NEW YORK

Along The Aisles

novations is the Towmostatic Drive, based on hydrostatics. This drive eliminates transmission, drive line, and differential. It provides single pedal directional con-



trol. Differential action is hydraulic with two special motors which transmit torque individually to each drive wheel.

Towmotor also displayed its extra-low-profile lift truck, part of the Van-Stack

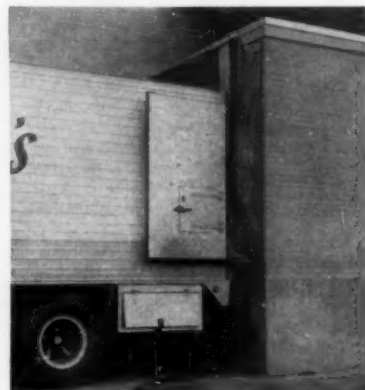
series. It can stack high in the warehouse. But it also permits easy access to low headroom areas, such as vans, boxcars, and so on.

Towmotor Corp.

Circle 199 on Reader Service Card

Dock Shelter Cuts Losses

New Frommelt Perma-Dox truck shelters are said to reduce refrigeration loss to



less than 5 per cent. They're inexpensive and are installed permanently for protection in any weather. The maker claims no operation is required for use. Elasticized front, cape cover, and adjustable head curtain fits any truck type snugly.

Frommelt Industries, Inc.

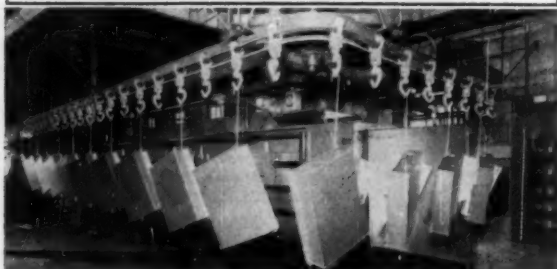
Circle 200 on Reader Service Card

BUSCHMAN SPECIALIZATION Pays Off In Your Plant

Buschman designs, manufactures and installs conveyors . . . good conveyors . . . *nothing but conveyors*. Specialists! Whatever you buy from Buschman is experience-engineered to fit your conveyor needs:

- | | | |
|-------------------------|--|---|
| ROLLER
WHEEL
BELT | LIVE ROLLER
OVERHEAD TROLLEY
TABLE-CABLE | SLAT
PUSHER BAR
LIVE STORAGE RACKS
ELEVATING EQUIPMENT |
|-------------------------|--|---|

Buschman combines components in systems that effect greatest economy in your handling. Tell us your handling problems; we will send literature, suggestions. The E. W. Buschman Company, 4552 Clifton Ave., Cincinnati 32, Ohio.



Buschman
CONVEYORS

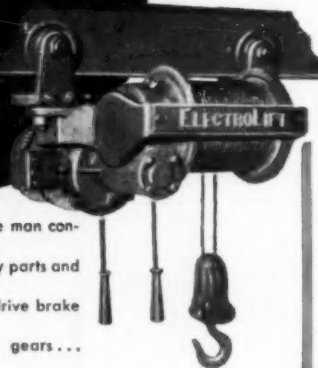
Complete Conveyor Systems for all Types of Industries—Engineered, Manufactured, Installed
Representatives in Principal Cities; See Yellow Pages

368

Circle 15 on Reader Service Card

For years
of steady service—

ELECTROLIFT WORM- DRIVE HOISTS



- **Simple to operate**—one man control, push-button or rope
- **Built to last**—with quality parts and automatic lubrication
- **Safe**—alloy steel worm-drive brake holds loads securely
- **Compact**—no overhung gears . . . allow close headroom
- **Clean and quiet**—working parts are fully enclosed

Electrolift worm-drive hoists give you smooth, fast control over loads of from 1/4 to 10 tons. For details on speeds and models, consult your Electrolift representative, listed in the classified directory.

ELECTROLIFT
HOISTS

6456

204 Sargeant Avenue

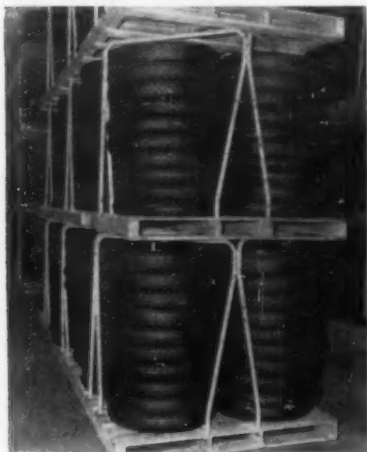
Clifton, N. J.

Circle 28 on Reader Service Card

MATERIAL HANDLING ILLUSTRATED

Shows New Tire Rack

In addition to their regular Hi-Line Storage Racks, Warehouse Storage Sys-



tems Co. presented the new Hi-Line Tire Rack. This stacking hardware for the storage of tires has greater stability at low cost, always the goal of the company.

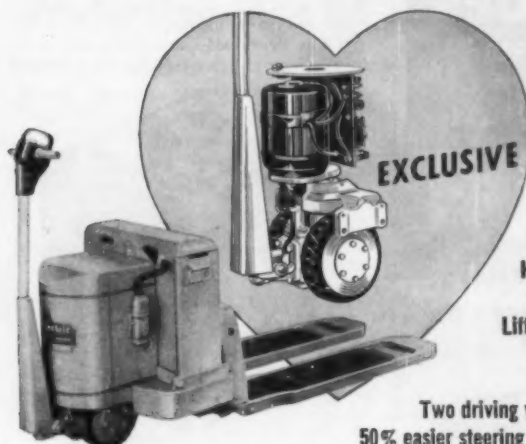
Warehouse Storage Systems Co.
Circle 201 on Reader Service Card

Long-Life Battery

Nine to 30 percent more electrical energy than automotive-type batteries is claimed for the 3-KCS-9 Exide shown by

Circle 44 on Reader Service Card

HEART OF THE Hydro^{Electric}



... THE DYNA-DUAL POWER UNIT

Compare the Hydroelectric features with any other "Driver Lead" Lift Truck. The Hydroelectric quality of construction merits your inquiry.

Two driving wheels instead of one ... 50% easier steering ... ease of maintenance.

NOTE: The Dyna-Dual Power Unit is interchangeable on all models.

A TRUCK FOR EVERY PURPOSE AND MATERIAL



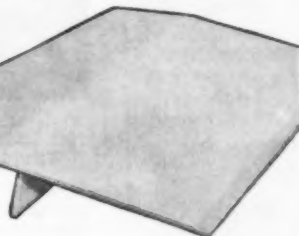
LIFT TRUCKS, INC.

CINCINNATI 14, OHIO



A DOCKBOARD ONE MAN CAN LIFT!

the Original LANGSENKAMP
SUPERSTRENGTH ALUMINUM DOCKBOARD



STRONGER THAN STEEL PLATE...YET

THREE TIMES LIGHTER!

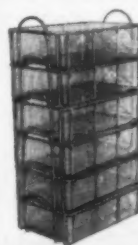
Amazing sales history : write for our
proves its popularity : new folder:
"DOCKBOARD 1960"

F. H. LANGSENKAMP CO.

227 E. SOUTH ST. • INDIANAPOLIS 4, INDIANA

Circle 42 on Reader Service Card

JUNE 1960

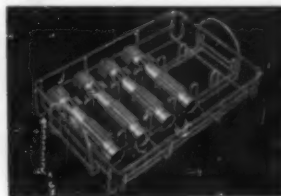


PUT
PARTS HANDLING
ON A LOW COST
BASIS

EezyStak

BASKETS

You can process parts for less money than it's costing you now by using Eezy-Stak parts handling baskets! Eezy-Staks have the exclusive patented "Inter-Lok" handles for convenient, compact stacking and storage. Parts handled safely ... less risk of damage ... rejects reduced. Two types—compartmented baskets for segregated parts handling, open mesh type for bulk handling. May be zinc-plated, plastic or neoprene-coated.



**WRITE TODAY
FOR BULLETIN B-57**

Wire and Iron Products Inc.
1720 Sixteenth Street
Detroit 16, Michigan

Circle 72 on Reader Service Card

35

3 TOP VALUES

From Among 80
BIG JOE
Lift Truck Models



1
"the PEDALIFT 21"
\$199⁰⁰ complete
1000 lb. capacity
54 in. lifting height



2
"the 299"
\$299⁰⁰ complete
1000 lb. capacity
57 in. lifting height
Battery Operated



3
"the CHALLENGER"
\$397⁵⁰ complete
1500 lb. capacity
57 in. lifting height
Battery Operated

Hydraulic Handling for
EVERY Department
BIG JOE
Manufacturing Company
Sarrington Road
Wisconsin Dells, Wisconsin
Circle 16 on Reader Service Card

Along The Aisles

Exide Industrial Division. The new battery was developed particularly for light-duty industrial vehicles. It's an advanced

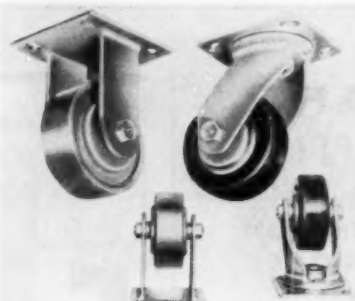


miniature version of those that power mine locomotives. Minimum service life is said to be 4 years.

Exide Industrial Div.,
Electric Storage Battery Co.
Circle 202 on Reader Service Card

New Caster Line

A new series of casters especially developed for the textile industry was pre-

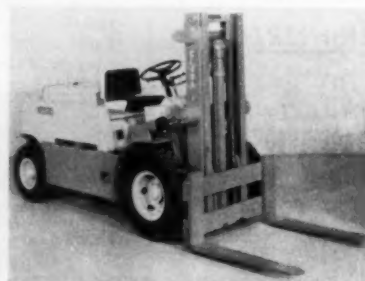


sented at the Albion Industries booth. They also showed the Alathane line of casters and wheels—they're equipped with polyurethane tread.

Albion Industries
Circle 203 on Reader Service Card

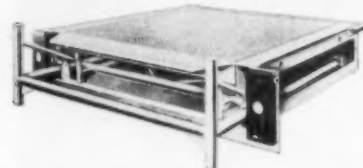
New Fork Line Offered

Clark Equipment Company has a new line of outdoor Clarklift fork trucks. Ca-

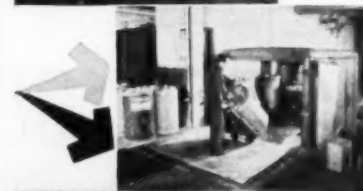
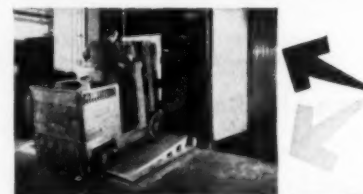


SHORTEST SPAN

TO
THE
PEAK OF PROFITS



DOCKBRIDGE
AUTOMATIC LOADING RAMP



Cut Loading Time 60% . . . Keep Trucks,
Material and Personnel Piling up Dollars

"Dockbridge" costs less to buy—less to install—less to use. This fully-automatic, truck-activated, hinged loading ramp keeps your trucks rolling and producing—cuts wasted man hours. It takes trucks up to 16" above and down to 10" below dock level. No need for costly, complicated hydraulics or jury-rigged mechanisms. Only self-contained package ready to install in a prepared dock pit 17½" deep. Where pit is impractical, addition of four sturdy legs makes "Dockbridge" a free-standing unit. Adaptable to either existing dock or new construction. Three models available: 6' x 6', 6' x 8', 6' x 10'.

Write for free catalog.



**AMERICAN
DOCKBRIDGE, INC.**

239 West Oklahoma Avenue, Milwaukee 7, Wis.

Circle 3 on Reader Service Card

MATERIAL HANDLING ILLUSTRATED

capacities range from 2,000 through 8,000 lb. All have pneumatic tires and are gas-powered. They also have a new reach-type narrow aisle electric fork job only 38 inches wide with power brakes and power steering.

Clark Equipment Co.
Circle 204 on Reader Service Card

Tote Boxes on Display

The Molded Fiber Glass Tray Co. showed lines of boxes for every application. They are made of molded fiber glass



any polyester resin. Steel wire, completely concealed within the edges of the box, adds extra strength and rigidity.

The Molded Fiber Glass Tray Co.
Circle 205 on Reader Service Card

Print Your Labels

A label-printing operation was demonstrated by Weber Marking Systems, Inc. Representatives showed how the Dual-80



label printing machine works. It prints from a rubber mat with changeable rubber type or stencil drum, counts from pre-set counter, cuts to size and stacks labels automatically at the rate of 105 a minute.

Weber Marking Systems Inc.
Circle 206 on Reader Service Card

Reinforced Pallet

Signode Steel Strapping Co. demonstrated newly-developed strapping applications. The exhibit included a fully automatic power strapping machine, air powered and electric powered strapping tools, power strap feeder, dispensers, cutters, and accessories. The Super Strip Pallet (photo) was featured. It's long lasting, includes two- and four-way entry, eliminates snagging, and is simply con-

Practical Idea for the Production Man

Efficient electric hoists...to move materials overhead and release floor space for more valuable operations.



CM LODESTAR ELECTRIC CHAIN HOIST
½ to 2 ton capacities—First truly heavy duty version of small electric hoist. ½ ton model weighs only 51 lbs. Heavy duty self-adjusting brake. Upper-lower safety limit switches. CM-Alloy load chain.



CM METEOR ELECTRIC WIRE ROPE HOIST
½ to 5 ton capacities—Compact, enclosed design. Low headroom. Continuous duty motor with thermal overload protection for heavy duty service. Precision bearings and helical gears for long life. Only 110 volts at push button control.

Good
Suggestion
for the
Maintenance
Man!



Rugged lightweight hand hoists and pullers...to make your job easier and safer

CM CYCLONE HAND HOIST
½ to 10 ton capacities—Easy to carry and lift. One ton model weighs only 36 pounds. Made of tough aluminum alloy. CM-Alloy load chain. High efficiency. Lifetime lubrication.

CM PULLER THE "ONE MAN GANG"
½ to 6 ton capacities—Lifts or pulls at any angle. Lever handle operation. Automatic load brake holds at any point. ½ ton model weighs only 13 pounds. CM-Alloy flexible load chain.

ALSO...CM Trolleys and Cranes

Request catalog and name of local stocking distributor.



CHISHOLM-MOORE HOIST DIVISION

COLUMBUS McKINNON CHAIN CORPORATION

TONAWANDA, NEW YORK

REGIONAL OFFICES: NEW YORK, CHICAGO, CLEVELAND

In Canada: McKINNON COLUMBUS CHAIN LIMITED, ST. CATHARINES, ONTARIO

Circle 18 on Reader Service Card

ONLY KELLEY ADJUST-A-LIP DOCKBOARDS Solve These DOCKLOADING PROBLEMS!

DAMAGE TO MERCHANDISE AND TRUCKS

The ADJUST-A-LIP Dockboard lip retracts behind dock bumpers. No fixed lip, operating arms or obstructions to damage truck or end loads. No attendant necessary when carrier is positioned.

SMASHED OVERHEAD DOORS

Now, trucks cannot back in and cause dockboard to suddenly raise up and smash into overhead doors, or dump men and equipment. Doors remain closed and unit remains at dock level for safe cross traffic until carrier is serviced.

LIMITED POSITIONING HOURS

With ADJUST-A-LIP, carriers can be spotted any time day or night . . . 24 hours a day.

EXPENSIVE WASTED MAN HOURS

An ADJUST-A-LIP saves both valuable time and labor . . . its long, wide, safe ramp speeds loading. No need to search for and haul loose plates.

ADJUSTS 6 WAYS MECHANICALLY!

ADJUST-A-LIP moves up, down, in and out of truck beds above or below dock level. TILTS Right or Left (to compensate for canted trucks).

FREE Get the FACTS!
Send for details TODAY!

- ☐ **FREE KIT** — "How to Plan a Profitable Truck Dock Operation."
- Get booklets on Dock Safety, Modernizing, Levelling Data, Deck Designs, etc.
- ☐ **FREE SURVEY** — No obligation.
- ☐ **Facts and Figures** — Get Bulletin titled "How to get an ADJUST-A-LIP for \$1.00 a day."

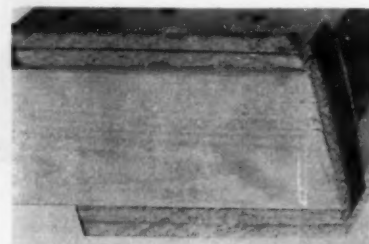
Tear out and attach this coupon to your letterhead. Sign your name and mail to:

**HI-LO KELLEY
DOCKBOARDS COMPANY
INC.**
2159 W. MILL ROAD
MILWAUKEE 9, WISCONSIN

Circle 41 on Reader Service Card

Along The Aisles

structed. It's a wooden warehouse pallet reinforced with special $\frac{3}{4}$ " x .035" plastic coated steel strapping. The strapping is designed and treated to bend well and it can be nailed.



Signode Steel Strapping Co.
Circle 207 on Reader Service Card

Power Sweepers For 24-Hour Work

Clarke Floor Machine Co. showed the new Model CHD-36 Rider Type Power Sweeper. It's rugged, and built to with-



stand long and hard usage. Frame and chassis are of welded unit construction. Has extra heavy $\frac{1}{4}$ " thick side panels of plate steel. A $\frac{3}{16}$ " thick channel encircles the complete machine for real protection.

Clarke Floor Machine Co.

Circle 208 on Reader Service Card

Magnetic Memory System at Work

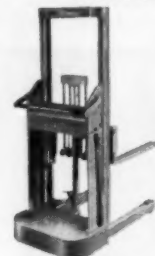
Standard Conveyor Co. displayed typical package type conveyor system equipped with memory controls for automatic sorting and transfer of commodity from one



**AMERICAN
SAFeway**

PORTABLE ELEVATING TRUCKS for any stacking job

From 46" to 130" lift



STANDARD
MODELS
priced from

\$190⁰⁰

to

\$855⁰⁰



Your crew can do twice the
handling work for
the same payroll cost

...and to take the heavy work
and heavy costs out of
HORIZONTAL HANDLING

**AMERICAN
LOAD-JOCKEY**



... the new drive
attachment for
portable elevating trucks

MATERIALS-HANDLING DIVISION
The American Pulley Company
4200 Wissahickon Ave., Philadelphia 29, Pa.
AMERICAN SAFEWAY TRUCKS—
by the makers of the famous American Pressed-Steel
Hand Trucks



Circle 64 on Reader Service Card

MATERIAL HANDLING ILLUSTRATED

Circle 39 on Reader Service Card

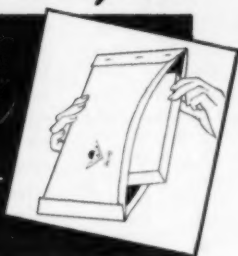
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IT'S OPEN IN
A JIFFY!



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SHIPPING BAGS**

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- ★ Golden Clupak[®] Outer Liner —
- ★ New Bag Construction —
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Now **\$350⁰⁰**
Only

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Extra rugged construction for Heavy Duty use. Precision built, BT fork-type PALLET TRUCKS are fully hydraulic, easy to use, highly maneuverable. Pivots 90°, both directions. SKF ball-bearing wheels, (available in steel, rubber or Bakelite). For single or double face pallets and skids. Lowered Height: 3 1/4" - 5" Lift. A real buy.

Model BT-24

2400 lb. Capacity.....**\$350⁰⁰**

Model BT-44

4400 lb. Capacity.....**\$395⁰⁰**

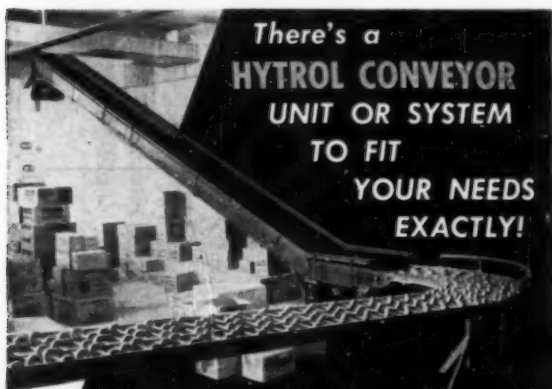
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**YOUR CHOICE OF SIZES
IN EITHER MODEL:**

Fork Widths: 20 1/2" or 27"
Fork Lengths: 36", 42" & 48"
(Specify width, length and
wheel type when ordering)
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There's a
**HYTROL CONVEYOR
UNIT OR SYSTEM
TO FIT
YOUR NEEDS
EXACTLY!**

Hytrol engineers start with the problem — a study of your facilities as related to the conveying job to be done. More often than not, your low-cost solution is found in a unit or combination of standard units in the Hytrol catalog: Powered belt models, horizontal and inclined, floor-to-floor models, portable stackers, boosters, wheel and roller conveyors, complete accessories. Speedy delivery through distributors in major cities.



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**CUT PARTS, TOOLS AND MATERIALS
HANDLING AND STORAGE COSTS**

Low-Cost Flexible Stackbin System

Saves Space, Time and Labor

Stackbin®-Stackrack® Combinations are the ideal way to minimize parts, tools, materials handling. Stackbins are portable containers, so you can carry materials throughout your process without transferring contents to any other container. Stored in Stackracks, every Stackbin is instantly accessible when it's needed. You never disturb another bin. Hopper fronts on Stackbins provide visibility and accessibility to the materials. Available in 7 sizes, Stackbin-Stackrack Combinations make most efficient use of floor space. With inexpensive Adapters, any small units can be stacked on larger units. Related items can be kept in one place. Individual units lock together; no tools, no setup time needed.



WRITE FOR CATALOG

All Stackbin Products Sold Direct
STACKBIN CORPORATION
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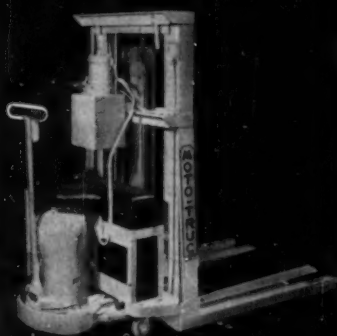
Mfgd. and sold in Canada exclusively by Wickware-Stackbin, Ltd., Perth

STACKBIN SYSTEM
"Stacked and Still Accessible"

Circle 62 on Reader Service Card

MOTO-TRUC

Leads the field in
"Walkie"
Outrigger
Trucks



**An easy handling stacker
...priced below competition**

• This rugged walkie MOTO-TRUC is designed to stack from aisles less than 6 feet wide. Its four wheel suspension assures stacking stability while the articulated drive wheel provides maximum traction.

Available in both telescoping and non-telescoping models with standard lift to 152". Capacities up to 4,000 pounds.

Write For Moto-Truc
Catalog — full
specifications and
dimensions.



THE
MOTO-TRUC
COMPANY

1926 East 59th St. • Cleveland, O.

Circle 49 on Reader Service Card

Along The Aisles

conveyor to any selected station. Demonstration featured quick acting, right angle push offs that enable fast transfer to greatly increase the number of packages handled per unit of time. This system eliminates coding on packages and affords high multiple choice of stations. Station selector can be located at any convenient place. Can be used with closed circuit television or other types of stock control system.

Standard Conveyor Co.
Circle 209 on Reader Service Card

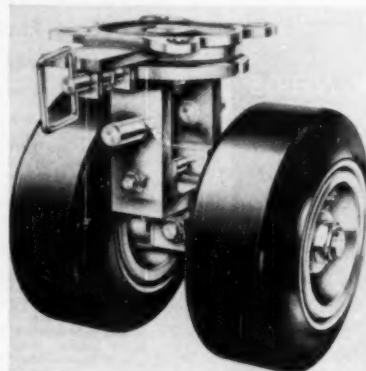
Screw Stock Stored Easily

You handle and store screw machine stock neatly and easily with the new Bar-Stak system. The units are like magazines for cartridges. One man and a hoist can lift and place a ton of 12-foot lengths safely and flexibly according to Hartman Metal Fabricators. The system uses a grab, four cradles and a pair of end pieces per unit. They're all made of 1/8-inch steel plate. The firm also makes Flexirack, a completely adjustable storage shelf system, and Booster, a power drive for portable lift trucks.

Hartman Metal Fabricators, Inc.
Circle 210 on Reader Service Card

Casters Tow At High Speeds

Faultless Caster Corporation's 18-10X4 specialty caster is equipped with two 10" x



4" press-on tires and a four-position lock. It's designed for use on heavy-duty transporting dollies, with a load rating of 2,500 lb at 10 mph. This caster is excellent for towing at high speeds.

Faultless Caster Corp.
Circle 211 on Reader Service Card

Better Battery Operation

La Marche Recharger battery chargers are totally automatic, can often be mounted directly on the battery container. La

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BUCKET ELEVATORS
& BELT CONVEYORS

ARE ENGINEERED TO
MEET YOUR NEEDS

Universal Bucket Elevators are designed as compact units, that will elevate your materials smoothly and surely. Standard steel, galvanized or stainless elevators can be supplied in complete "packaged" units . . . ready to install and put to work.

**THROUGH RESEARCH AND
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OFFERS YOU . . .**

ADVANCED DESIGN — More compact, cleaner operating, smoother running.

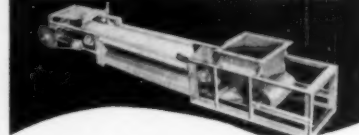
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Universal Bucket Elevators are available for capacities up to 3750 cubic feet per hour and may be obtained for any exact height.

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. . . offer a low cost efficient method of moving all free flowing materials. Low initial cost, less maintenance and trouble-free service are made possible because of the smooth rollerless design. There's a Universal "TROF-BELT" conveyor designed to meet your specific needs in capacities up to 3,750 feet per hour.

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Universal guarantees complete satisfaction within 60 days or full purchase price will be refunded. Materials and workmanship guaranteed for one year.

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Circle 70 on Reader Service Card

MATERIAL HANDLING ILLUSTRATED

Circle 48 on Reader Service Card

Move Material ECONOMICALLY!



—MAGNESIUM DOCK BOARDS prove their superiority ... outperform, outlast others!



—LADD DRUM LIFTER makes it practical to handle metal drums with a fork truck!

Also Yard Ramps, Light-Weight Dollies, Pallet Dollies. Special Equipment.

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3 of 22
DESIGNS

TYPE 20

Four Wheel Mounted,
Double Nose-Over.

TYPE 22

Double
Nose-Over
and Adjustable
Power Feeder.

TYPE 19

Caster Mounted, Pow-
er Feeder, Double
Nose-Over, Adjust-
able At Each End.

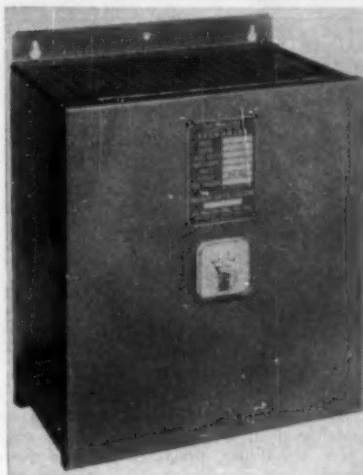
- Aluminum or Steel
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- Belt Widths 8" to 24"
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IMPORTANT! Every Cost-Cutter is Set Up and
Test Run in our plant to assure Proper Performance.
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Circle 52 on Reader Service Card

Marche Mfg. Co. showed how you may
eliminate the battery charging room and



get more efficiency from your battery
equipment. They make more than 70
standard types of Rechargers that need
no technically trained operators.

La Marche Mfg. Co.

Circle 212 on Reader Service Card

Short Turn Fork Lift Truck

The G54-30 is gasoline or LP-Gas pow-
ered. It's the newest product of The
Yale & Towne Mfg. Co. They're avail-
able in 3,000, 4,000 and 5,000 lb capacity.
Features fully automatic torque transmis-

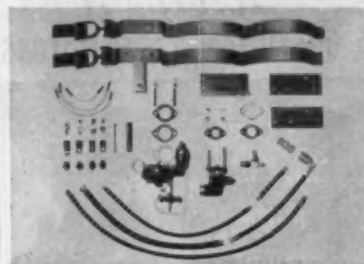
EQUIPMENT IN ACTION



TOWLINE TRUCKS eliminate
hand pushing and they speed
manufacturing at Cone Mills
Corp. In one plant alone, the
firm uses 450 Nutting Truck &
Caster Co. trucks. This truck car-
ries about 800 pounds of denim
between two floors. It travels
up a 30-ft ramp with a 4-ft rise.
The trucks also handle cloth from
looms in the weave room to the
finished bales.

Circle 213 on Reader Service Card

BEAM LP Gas CONVERSION SYSTEMS



**CLARK...
...TOWMOTOR
HYSTER...
...YALE & TOWNE
and all others**

Whatever the make and model, whatever the
brand and size of engine — BEAM'S ready-
to-install systems have everything you need
to convert your fork lifts and tow trucks to
clean-burning, inexpensive LP-Gas.

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For over 20 years Beam has been "out-front"
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Equipment. You'll find that Beam's line of
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Write today for complete details, specifications
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Los Angeles 65, California

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conversion of _____ (equipment).

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Circle 7 on Reader Service Card

2 POWERFUL AIDS

to more economical plant operation

BAUER DRUM MOTORS & GEAR MOTORS

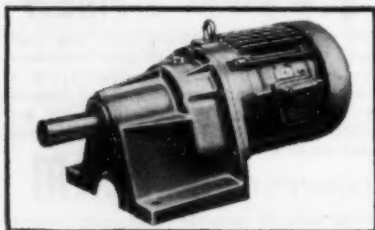


BAUER SELF-DRIVEN HEAD PULLEY

Motor, gears, all moving parts integrally designed in a compact efficient, one-piece totally enclosed conveyor drive unit.

Eliminates V-Belts, external drives and all safety hazards. Cuts down on maintenance time. Easy, quick installation.

From 1/4 to 25 H.P. in all standard widths and diameters. Service and parts readily available in U.S.



BAUER GEAR MOTORS

1/50 to 30 HP—0.3 to 800 RPM
Quality Motors Economy Priced

Over 30 years of experience and know-how are built into every BAUER gear motor and drum motor.

Totally enclosed and fan-cooled BAUER gear motors are designed to function well in any position, vertical, horizontal or wall mounted.

For further information check with your distributor or write for illustrated literature to: MHI-2

FACTORY REPRESENTATIVE

Georg von Opel Corp

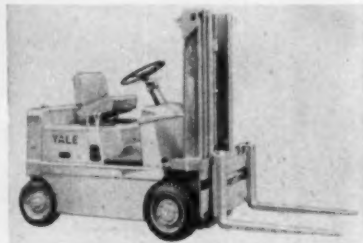
15 WILLIAM STREET, NEW YORK 5, N. Y.

In Canada: Alliance Electric Works Ltd.
145 Bates Rd., Montreal 8, Quebec

Circle 71 on Reader Service Card

Along The Aisles

sion, interlocking I-Beam mast construction, and short turning radius Yale's



Midget King electric hoist was also a main feature. This series comes in capacities from 1/8 to 2 tons. They combine portability, practicability, and economy.

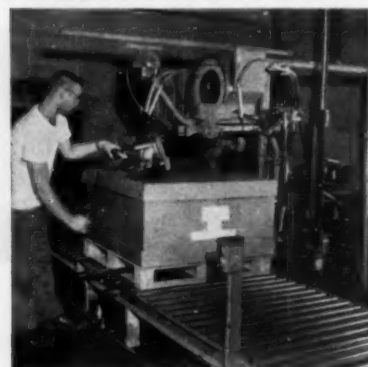
Yale & Towne Mfg. Co.

Circle 214 on Reader Service Card

Automatic Strap

Engineers from Acme Steel Products Division showed production line strapping of unitized loads on pallets or skids. Strapping is power fed around all types of packages or units. You don't have to hand thread the band. The E40 Power Strap-Feed Assembly works well

with power machines or hand strapping tools. It has a reciprocating strap track for fast, simple, and inexpensive strap feed-



ing. A second model applies cross straps without a turntable. The show demonstration included a mounted A4 strapper, pneumatically powered. It tensions, seals, and cuts off the band, all under power.

Acme Steel Co.—Steel Products Division

Circle 215 on Reader Service Card

Automatic Charge

The Motor Generator Corp. monitor type charger was on view. These Hobart chargers are four-circuit automatic motor generators for charging motorized hand truck batteries. The chargers are fully automatic as regards control, cut-off at full

DIVINE CASTERS Job Rated...



...For a Lifetime of EASY WEAR

User satisfaction with DIVINE casters is no accident. DIVINE insures superior performance by rating each caster for a specific job . . . taking into careful account the expected load; the mobility required both in wheel movement and in swivel; and the operating conditions over which the caster must move. This extreme care pays off in a longer life due to easier wear on the caster. Ask for a DIVINE Catalog. Better yet, first ask a DIVINE user. Then you will be sure to ask us.

DIVINE BROTHERS CO.

200 SEWARD AVENUE
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Circle 25 on Reader Service Card



MAGCOA

MAGNESIUM CO. OF AMERICA

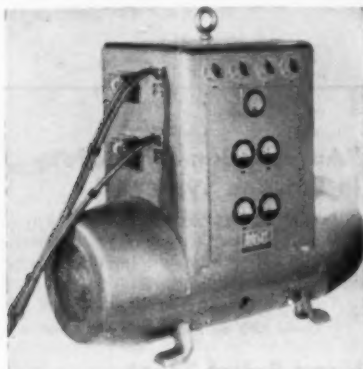
Materials handling products in magnesium and aluminum. Dockboards, hand trucks, platform trucks, yard ramps, cross-over bridges, skids, pallets, etc.

For descriptive material write to Department 201

155 S. E. 10th Ave., Hialeah, Fla.

Circle 45 on Reader Service Card

charge, shutdown at completion of charge, shutdown in case of power failure, and restart when power resumes. Each charger



has four complete charging circuits in a dead-front control cabinet, housed atop the motor generator set to provide compact design.

Motor Generator Corp.

Circle 216 on Reader Service Card

Fork Trucks For High Stack Jobs

The new Barrett-Cravens Company Model TTR Sit-Down Rider Fork Truck is available in capacities of 1,000, 1,500, and 2,000 lb with various mast lift heights. Has automotive type steer, brake and accelerator for easy control. Mast tilts



12 degrees back, 2 degrees forward. Company also featured its RST Rider Straddle Hi-Lift that has 1,000 to 4,000 lb capacities. It has left hand steering control.

Barrett-Cravens Co.

Circle 217 on Reader Service Card

Truck Makes Debut

The Hyster Co. introduced the first pneumatic-tire lift trucks equipped with Monotrol control system. Monotrol combines forward-reverse selection and throttle in a single right-foot pedal. Operator has full-time use of his hands for steering and load control.

The Hyster Co.

Circle 218 on Reader Service Card

Circle 17 on Reader Service Card

As Little as \$285 Makes Your Hoists and Cranes Into Fork Lifts



You can now handle pallet, coil and other unit loads where fork trucks are too expensive or impractical. America's foremost industries are saving thousands of dollars in first cost, handling cost, operating cost and maintenance cost with Cady Pallet, Coil, and Pipe Lifters. Repeat orders are proof of satisfaction. Counterbalanced to hang level, they are easy to use and reduce nonproductive handling costs in plants, in yards, on docks and on job sites. Standard Pallet Lifters up to 10,000 lbs. capacity, Coil Lifters up to 40,000 lbs. capacity, and Pipe Lifters up to 15,000 lbs. capacity. Custom models to fit special conditions. Write or phone for helpful application recommendations.



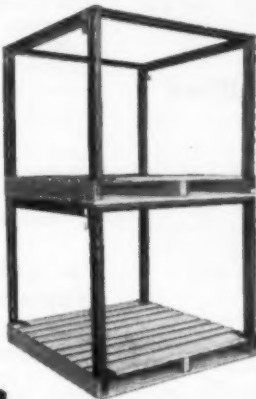
CADY METAL FABRICATING, INC.
85 Schenck St. N. Tonawanda, N. Y.
Jackson 4145

NEW STURDI-BILT PALLET RACKER

Converts standard pallets into LOWEST-COST portable racks

- Provides most rigid racking ever offered
- Takes heavier loads.
- Stacks ceiling-high
- Assembles faster

This new STURDI-BILT hardware enables you to safely palletize anything... regardless of size, shape or weight. Sturdy? Handles up to 12,000 lbs. per stack... with no twist or sway. So versatile, too. Amazingly low in cost! For FREE data, attach the coupon to your letterhead.



Sturdi-Bilt

Material Handling Div. (MHI-60)
Union Asbestos & Rubber Co.
332 S. Michigan, Chicago 4, Ill.

☐ Without cost or obligation, please send me full details on the new STURDI-BILT Pallet Racker.

Circle 65 on Reader Service Card



LEADING FACTORIES, mills and institutions, after fairly comparing these TOUGH BABIES, now use them as standard equipment. Light, strong, easy-stacking or snug-nesting — true space misers that hold a heap and wear till the cows come home!

Expertly constructed, with side walls of **VULCANIZED FIBRE**

ALSO

a complete line of FIBRE Box Trucks and Disposal Cans

• Write for illustrated Catalog

Federal FIBRE CORPORATION

3704 Tenth St. Dept. 7 Long Island City 1, N. Y.

Circle 32 on Reader Service Card

WHAT'S NEW IN

USEFUL LITERATURE

Heavy Duty Hoists

Bulletin 920 describes the line of Type F, low-headroom electric hoists. Included are construction details, mounting option information, performance data, and dimensions. They're available in four frame sizes. Capacities range from one-half to ten tons.

*Robbins & Myers, Inc.
Hoist and Crane Division*

Circle 130 on Reader Service Card

Flat Top Conveyor

For quiet, trouble-free conveying of cans, bottles, jars, and small parts in a single line. Quiet, high-speed operation without lubrication is made possible by the continuous nylon track under both the load and return sides of the belt. Available in carbon steel and stainless steel.

M-H Standard Corp.

Circle 131 on Reader Service Card

Maintenance Manual

Designed to assist users in servicing and maintaining storage batteries on railway diesel locomotives. Includes instruction for the most recent models, the MGD Exide-Ironclads. Manual also applies to all of Exide's lead-acid battery lines in railway diesel cranking service. Covers battery fundamentals through charging, inspection, records, maintenance accessories, and trouble shooting.

*Exide Industrial Div.,
The Electric Storage Battery Co.*

Circle 132 on Reader Service Card

Coil Holders For Wire Stitching Machines

This folder explains the advantages of coil holder for up to 50 lb coils. Loading is fast, installation is easy, and they're adaptable to many makes of stitchers. Acme model has a nontangle, automatic brake. A chart is included to help you find the number of stitches produced per lb of wire, depending on wire size, and length of stitch.

Acme Steel Co.

Circle 133 on Reader Service Card

A Modern Way to Mark:

Bulletin No. 58 tells you new ways to mark boxes, drums, and odd-shaped products with spray-on stencil ink. They're quick drying, waterproof and weatherproof, come in nine colors. Also a tan fluid for obliterating old markings on boxes so you can re-use them. Literature includes prices by the can or case.

Reynolds Ink, Inc.

Circle 134 on Reader Service Card

Safety-Approved Fork Trucks

Bulletin SS-1726 explains special safety features incorporated in nine models of gas and liquefied petroleum gas powered fork trucks used in hazardous operations. Folder covers special protective devices installed on battery, generator, muffler, air filter, and electrical distribution system. These safety features are approved by Underwriter's Laboratories.

Clark Equipment Co.

Circle 135 on Reader Service Card

Semi-Automatic Set-Up Machine

For corrugated boxes. A 4-page brochure details this machine which can produce and set-up 900 boxes an hour. Company recommends it for full-slotted and half-slotted boxes, and says it cuts assembly and handling costs, and speeds box set-up operations.

Gaylord Container Corp.

Circle 136 on Reader Service Card

Welded And Weldless Chain Data

Bulletin 59, a chain sample book, illustrates most sizes of 17 types of welded and weldless chain. The 28-page bulletin is intended to help the chain user select the correct type and size of chain for his requirements. Trade sizes and trade numbers, material size, weight per 100 feet, number of links per foot, plus finish and packing information are presented.

S. G. Taylor Chain Co., Inc.

Circle 137 on Reader Service Card

No Wear Magnetic Drive

Protect your motors and conveyors with a magnetic drive that features an air gap between two rotors. This makes it shockless, vibration-free, smooth, and eliminates maintenance. Send for detailed brochure.

Tormag Products,

Division of Gleason Reel Corp.

Circle 138 on Reader Service Card

Equipment For Planning Ahead

Bulletin 246, 16-pages, describes the wide variety of material handling devices offered by Whiting. Overhead traveling cranes, Trambeam monorail and crane systems, Pressuregrip vacuum handling systems, and Trackmobile, the road and rail freight car mover, are all featured.

Whiting Corp.

Circle 139 on Reader Service Card

"Automation And Safety In Towline Systems"

Booklet reviews existing towline systems utilizing automatic switching, accumulation and safety bumpers. It outlines what can be accomplished.

SI Handling Systems, Inc.

Circle 140 on Reader Service Card

Hand Pallet Truck

For single and double face pallets. The fully hydraulic Model BT24 truck has 2400 lb capacity, Model BT44, 4400 lb capacity. You may choose fork lengths of 36, 42, or 49 inches by either 20½ or 27 inches wide at no extra cost. Conveniently located foot pedal controls the lowering speed.

Industrial Handling Equipment Co., Inc.

Circle 141 on Reader Service Card

Self-Propelled Crane-Excavator

Bulletin Cr-350 describes and illustrates the Model CR-350 Bantam. It includes the complete line of Bantam built front-end attachments. Features include a heavy duty drum shaft and swing assembly, and all-new heavy duty turntable design. The self-propelled model has 11 ton lifting capacity.

Schield Bantam Co.

Circle 142 on Reader Service Card

6,500 Lb Capacity Tractor Shovel

A 16-page catalog details features and performance capabilities of the W-10 Terraload'r. Both the operation and construction of the 6,500 lb capacity rubber-tired tractor shovel are described. The 4-wheel drive, rear-wheel steer unit features full-power shift and torque converter drive. Choice of SAE rated buckets from 1¼ to 2¾ cu yd is offered, plus many interchangeable working tools.

J. I. Case Co.

Circle 143 on Reader Service Card

Portable Carton-Closing Stapler

Newly improved features of the redesigned International Hand Boxer are detailed in literature. Easy-to-set controls permit accurate penetration and clinch regulation of the staples. Other features: lightweight, all-aluminum chassis, non-jamming magazine design, self-returning handle with non-slip grip, and 2-piece heavy-duty anvils. Machine holds 100 staples at one loading.

International Staple & Machine Co.

Circle 144 on Reader Service Card

Non-Tilt Platform Trucks

Catalog J-I illustrates and gives complete specifications on the company's entire line of standard platform trucks, two-wheel trucks, skids, casters and wheels, and trailers.

Thomas Truck & Caster Co.

Circle 145 on Reader Service Card

Wire Rope Fittings

Get more information on combination wire rope clamp and thimble, safety hooks, choker hooks, bridles, slip-on thimbles, load protectors, open and closed thimbles, pipe hooks, and pipe bridles. Circle number for illustrated booklet.

Newco Manufacturing Co.

Circle 146 on Reader Service Card

Stacking Racks, Boxes

The Stak-Pal system of stacking includes a standard unit, coil racks, box racks, side frames, bin type box racks, and units with end frames. Find out about the type that can help you by sending for the complete description.

C. E. Robinson Co.

Circle 147 on Reader Service Card

Advantages of Monorail

Find out what monorail handling can do for you. Monorail cranes help eliminate friction through high carbon flat tracks, lap splices, flame hardened wheel treads, and self aligning trolleys. Send for literature.

Twin City Monorail Co.

Circle 148 on Reader Service Card

Pushbutton Van Loading

The Watson Co.'s DeWitt Moto-Vator is a powered floor-conveyor accessory for van-bodied truck and trailers. Four advantages: reduced handling costs, reduction in cargo and equipment damage, less loading and unloading time; faster trip schedules.

H. S. Watson Co.

Circle 149 on Reader Service Card

Swivel And Rigid Casters

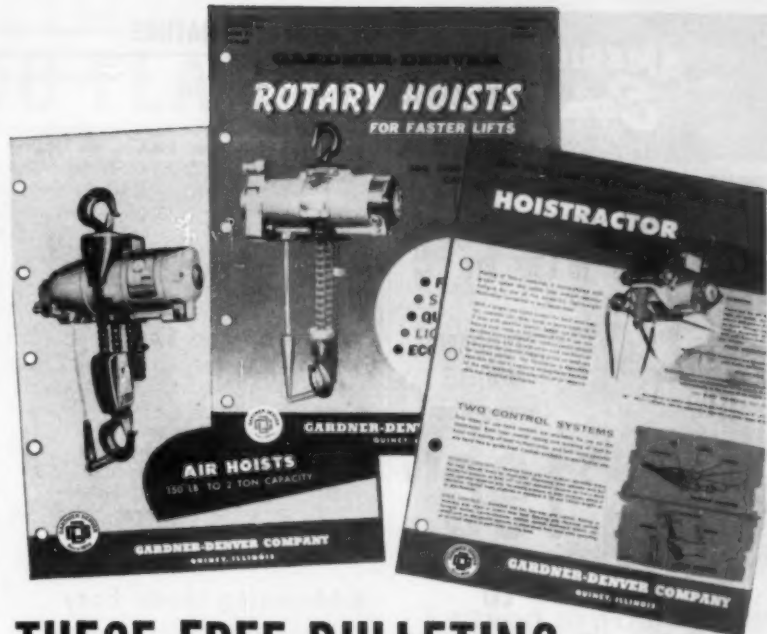
Condensed catalog No. 159, 24-pages, gives data on swivel-plate and rigid-plate truck casters. Load capacities range from 100 to 15,000 pounds each. Faultless spring-action casters, V-grooved casters, grease-sealed casters, scaffold casters, floor truck locks, and industrial wheels in a wide choice of treads are also detailed.

Faultless Caster Corp.

Circle 150 on Reader Service Card

11 Different Products

You can save time and money with some of the Stephens-Adamson Co. standard industrial products, all of which are stocked for immediate delivery. Circle number for brochure which describes catalogs and bulletins available on belt conveyor idlers, ship loaders and trimmers,



THESE FREE BULLETINS catalog the most complete line of overhead air hoists

Discover the simple, low-cost way to eliminate back-breaking lifting and tugging. Learn how easy it is to save time and money for your business. Find out how you can pep up the efficiency of lifting operations throughout your plant.

Fill out the coupon now and mail it in. We'll send you the Gardner-Denver bulletins which catalog the most complete line of overhead air hoists on the market. Here's what these bulletins will tell you:

How to order air hoists for any lifting capacity up to 4000 pounds.

How to order air hoists with lifting speeds from 19 to 90 feet per minute.

How to use the "Hoistractor" (powered trolley) with any beam hoist.

The advantages of safe, nonsparking air power.

The safety features engineered into all Gardner-Denver air hoists.

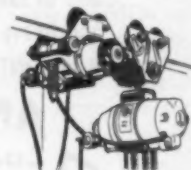
A selection of convenient air hoist accessories.



Piston air motor hoists noted for lugging power.



Rotary air motor hoists for high-speed lifting.



"Hoistractor" — powered trolley with air hoist combination.

*Trade-Mark



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GARDNER - DENVER

Gardner-Denver Company, Quincy, Illinois

In Canada: Gardner-Denver Company (Canada), Ltd., 14 Curity Avenue, Toronto 16, Ontario

MAIL THIS COUPON TODAY

Gardner-Denver Company, Quincy, Illinois

Gentlemen:

Please send me bulletins describing your complete air hoist line.

Name..... Position.....

Company.....

Address.....

City..... Zone..... State.....

Circle 34 on Reader Service Card

AMERICAN
Safeway

PORTABLE ELEVATING TRUCKS for any stacking job

From 46" to 130" lift



STANDARD
MODELS
priced from

\$190⁰⁰

to

\$855⁰⁰



Your crew can do twice the
handling work for
the same payroll cost

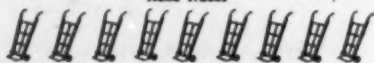
...and to take the heavy work
and heavy costs out of
HORIZONTAL HANDLING

AMERICAN
LOAD-JOCKEY



... the new drive
attachment for
portable elevating trucks

MATERIALS-HANDLING DIVISION
The American Pulley Company
4200 Wissahickon Ave., Philadelphia 29, Pa.
AMERICAN SAFEWAY TRUCKS—
by the makers of the famous American Pressed-Steel
Hand Trucks



Circle 5 on Reader Service Card

USEFUL LITERATURE

continued

troughing idlers, car loaders, car pullers, winches, portable box car loaders, conveyor belt cleaners, holdbacks for conveyors and elevators, speed reducers, and bin level controls.

Stephens-Adamson Mfg. Co.

Circle 151 on Reader Service Card

Weigh on the Spot

Try a Ride-N-Weigh electronic scale for fork lift trucks. It will tell you immediate weight of the load on the forks. The system fits any truck, is compact, uses the truck battery, has strain gages built in for protection, and is highly readable. Send for more information.

Streeter-Amet Co.

Circle 152 on Reader Service Card

Addressing Made Easy

There's a Sten-C-Labl to fit every multiple shipping need. Prepare them when you do your invoices, orders, bills of lading, or shipping papers. A squeeze bottle provides ink to the applicator. Imprint the labels directly on cartons or on tags. Circle number for a brochure.

Sten-C-Labl Inc.

Circle 153 on Reader Service Card

Fork Truck For Narrow Aisles

Company says its improved EL Series Lectro-Lift with Stepless responsive acceleration works best in narrow aisles. Short turn radius, plus midget overall length of only 80½ inches (including forks) increases useable space, allows narrower aisles. Literature gives full details, load capacity chart, dimensions.

Lectro-Lift

Circle 154 on Reader Service Card

Stainless Steel Screw Conveyors

You can now obtain "off the shelf" service or prompt deliveries of stainless steel screws, troughs and complete systems. Special screws are built in any diameter, flight thickness, pitch, shaft design and lengths.

M-H Standard Corp.

Circle 155 on Reader Service Card

Air Powered Door Operator

Catalog 166 details the new compressed air powered door operation. It's now optionally available with all Prest-O-Matic Industrial and Cold Storage Doors. Catalog describes the simplicity of the air unit. Also discusses the where and when of compressed air or electric power for door operation.

Clark Door Co., Inc.

Circle 156 on Reader Service Card



Wheel Brake
and Swivel
Lock Casters

Completely
Sealed
Casters

Wheels of
all sizes
and types

Extra
Heavy-Duty
Casters

Dual or
Triple Wheel
Casters

Medium
Duty Casters

V-Groove Wheel Casters

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BEST
move!**

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MATERIAL HANDLING ILLUSTRATED



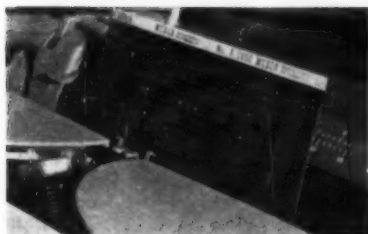
PHOTO FEATURE



Circle 160 on Reader Service Card

MULTIPLE CARTON shipments addressed in seconds. Shipping clerk marks each box without removing from pallet. With stencil marking system, outgoing orders are palletized in the warehouse, remain on pallets from then on.

On-Pallet Marking



Circle 161 on Reader Service Card

ORDER TYPIST adds data from shipping order to diecut stencil for low cost, high speed marking.



Circle 162 on Reader Service Card

STENCIL stays with order, will address each box in the shipment. Here it's fitted into hand printer.

MARK CARTON shipments speedily right on the shipping dock!

The pictures show how Minneapolis-Honeywell does it with stencil markers supplied by Weber Marking Systems, Inc.

Orders of 400 cartons move from shipping fully addressed in five minutes. They used to be delayed while each carton was addressed, left to dry, and was then palletized.

Action starts with the shipping papers. An expeditor checks each order for accuracy, marks the number of cartons to fill it.

A stencil, diecut with the M-H name, is typed. It contains customer's name and address, order number, other facts. Then the stencil is stapled to the order.

In the shipping room the stencil goes on a hand printer, marks each carton in a shipment right on the pallet. There's no rehandling. It's a one-handed job. The print dries practically on contact. ♦ ♦



I saved my company

\$3,000

A MONTH

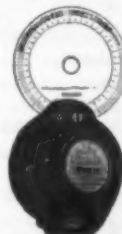
(Name of company furnished on request)

A simple device that automatically records minutes of busy and idle time of lift trucks enables many supervisors to make boasts like this.

When a lift truck is idle, the Servis Recorder reports *exactly when and how long it was idle*. Records are permanent, easy to read, and easy to file. They enable you to improve scheduling, help you pin-point inefficiency, and often pave the way for you to operate with fewer lift trucks.

Bolts on anywhere. Tamperproof — locks shut. Prices as low as \$40.

Also Available: Model that records number of productive lifts.



Send for an illustrated folder with full information

SERVICE RECORDER CO.

1015C ROCKWELL AVE., CLEVELAND 14, OHIO

Circle 61 on Reader Service Card

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Here's a quick and easy way to get catalogs, product information, and equipment data. All ads, literature reviews, new product items, and equipment ideas have a circle number. They are there to help you.

- Use the attached Reader Service Card.
- Circle the items you want to know more about.
- Mail the card—it knows where to go.

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